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Palmer, F. G.
1935 ^{pt.} 1936

Tehama, Siskiyou, Del Norte Co., Calif.
southern California 1935-36
San Benito Co., Calif. 1936

Section 4
Section 5
Section 6

F. G. Palmer

Tehama, Siskiyou and Del Norte Cos., Calif.
1935

Palmer
1935

Catalog.

7 mi. S Corning, Tehama Co., Calif.

May 9, 1935

skel.
only.

✓ 359 ♀ *Otocoris alpestris* Wt. 27.6 g.

✓ 360 ♂ " " Wt. 27.4 g. Coll. D.H. Johnson

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siskiyou Co., Calif.

May 10, 1935

Coll. D.H. Johnson

✓ 361 ♀ *Passerculus sandwichensis* Wt. 19.7 g.

May 11, 1935

3 Embs. x 23 mm.

✓ 362 ♀ *Microtus californicus* (?) 157-46-21-15 Wt. 54.6 g.

✓ 363 ♀ *Peromyscus truei* - 194-98-24-23.5 Wt. 31.4 g.

364. ♂ *Reithrodontomys megalotis* - 141-72-18-9 Wt. 11.6 g.

Coll. D.H. Johnson

365 ♀ *Microtus californicus* - 151-45-21-15 Wt. 45 g. 3 Embs x 20

Coll. D.H. Johnson

366 ♂ *Thomomys bottae* - 205-63-27-6 Wt. 121.6 g.

367 *Hyla regilla*

✓ 368 ♂ *Sitta carolinensis aculeata* Wt. 19.1 g.

May 12, 1935

✓ 369 ♀ *Zonotrichia leucophrys* - Wt. 23.5 g.

✓ 370 ♀ *Thomomys bottae* - 176-60-26-5 Wt. 63.2 g.

371 *Sceloporus occidentalis*.

3 mi. NW Gazelle, 2750 ft., Siskiyou Co., Calif.

May 12, 1935

✓ 372 ♂ *Otocoris alpestris* - Wt. 30.6 g.

✓ 373 ♂ " " - Wt. 26.4 g.

✓ 374 ♂ " " - Wt. 31 g.

skel.
only.

✓ 375 ♂ " " - Wt. 31.7 g.

✓ 376 ♀ " " - Wt. 29 g.

Palmer
1935

Catalog.

3 mi. NW Gazelle, 2750 ft., Siskiyou Co., Calif.

May 12, 1935

Skel.
Only. 377 ♀ *Otocoris alpestris* - Wt. 32.6g.

3 mi. NE Gazelle, 2750 ft., Siskiyou Co., Calif.

May 13, 1935

378 ♀ *Dipodomys hermanni* - 304-187-45-17 Wt. 79.4g. 4 Embs. x 13 mm.

379 ♀ " " - [221]-[108]-46-17 Wt. 84.3g. 4 Embs. x 13 mm.

Parkes Creek, 2750 ft., 3 mi. SW Edgewood, Siskiyou Co., Calif.

May 13, 1935

380 ♀ *Thomomys bottae*? - 181-61-26-6 Wt. 81g.

381 ♀ *Melospiza melodia* Wt. 22.3g.

Shasta River, 2850 ft., 2 1/2 mi. NE Edgewood, Siskiyou Co., Calif.

May 13, 1935

382 ♀ *Thomomys bottae* - 178-54-25-6 Wt. 81.2g.

Parkes Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siskiyou Co., Calif.

May 14, 1935

383 ♂ *Thomomys bottae* - 217-67-29-6 Wt. 133g.

384 ♀ *Neotoma fuscipes* - 407-200-39-33 Wt. 297g.

385 ♀ *Peromyscus truei* - 194-102-25-24 Wt. 29.8g.

386 ♀ " " - 203-103-24-25 Wt. 29.8g.

387 ♀ " " - 217-114-26-26 Wt. 32.7g.

388 ♂ " " - 193-95-25-23 Wt. 28.1g.

389 ♀ " " - [186]-[88]-24-24 Wt. 32g.

Cave 11 mi. NE Weed, 3600 ft., Siskiyou Co., Calif.

May 16, 1935

390 ♀ *Perognathus parvus* - 165-87-27-10 Wt. 13g.

391 ♀ " " - [135]-[67]-27-9 Wt. 12.4g.

Palmer
1935

Catalog

Caves 11 mi. NE Weed, 3600 ft., Siskiyou Co., Calif.

May 16, 1935

2 Embos. x 10 mm.

✓ 392 ♀ *Dipodomys heermanni* - 317-190-47-19 Wt. 84.2g.

✓ 393 ♀ " " - 300-180-44-18 Wt. 69.7g.

✓ 394 ♂ " " - 308-185-47-18 Wt. 78.8g.

✓ 395 ♀ " " - 302-181-46-17 Wt. 69.4g.

where? ✓ 396 ♀ " " - 311-190-47-17 Wt. 71.5g.

✓ 397 ♂ " " - [265]-[141]-47-18 Wt. 84g.

✓ 398 ♂ *Baeolophus inornatus* Wt. 15.7g.

✓ 399 ♂ *Aphelocoma californica* Wt. 103g.

Skull Only ✓ 400 ♀ *Peromyscus truei* - 205-100-24-27 Wt. 39.5g. 3 Embos. x 25 mm.

Skull Only ✓ 401 ♂ " " - 193-97-24-25 Wt. 27.8g.

Skull Only ✓ 402 ♀ " " - 210-109-24-25 Wt. 28.2g.

Skull Only ✓ 403 ♀ " " - 205-104-24-25.5 Wt. 29.4g. 3 Embos. x 5 mm.

Skull Only ✓ 404 ♀ " *maniculatus* - 177-83-21-18 Wt. 24.5g. 5 Embos. x 2 mm.

✓ 405 ♀ *Aphelocoma californica* - Wt. 95.2g.

Big Spring, 2700 ft., Shasta Valley, Siskiyou Co., Calif.

May 17, 1935

Skel. Only ✓ 406 ♂ *Chondestes grammacus* - Wt. 28.8g.

May 18, 1935

✓ 407 ♂ *Geothlypis trichas* - Wt. 9.6g. Coll. by D. H. Johnson

✓ 408 ♂ " " Wt. 9g. " " "

~~409~~ " " ~~Wt. 9.5g.~~ " " "

✓ 410 ♂ *Melospiza melodia* Wt. 22.1g. " " "

Little Shasta River, 2900 ft., 8 mi. E Montague, Siskiyou Co., Calif.

✓ 411 ♂ *Hylocichla fuscescens* (?) - Wt. 30.6g.
May 19, 1935
rustulata

Palmer
1935

Catalog

S. Base Table Rock, 3400 ft., 10 mi. E Montague, Siskiyou Co., Calif.

May 19, 1935

412 ♂ *Marmota flaviventor* - 461-120-67-28 Wt. 1120g.

413 ♂ " " - 383-114-64-27 Wt. 777g.

Little Shasta River, 3000 ft., 10 mi. E Montague, Siskiyou Co., Calif.

May 21, 1935

414 *Pituophis catenifer*

415 *Bufo boreas*

416 *Rana* sp.

417 ♂ *Thryomanes bewickii* Wt. 10.8g.

S. Base Table Rock, 3400 ft., 10 mi. E Montague, Siskiyou Co., Calif.

May 21, 1935

418 ♂ *Pipilo crissalis* Wt. 59g. Coll. by D. H. Johnson

419 *Sceloporus occidentalis*.

Skull Only 420 ♀ *Marmota flaviventor* - 383-120-62-27 Wt. 651g.

May 22, 1935

Skull Only 421 ♀ *Marmota flaviventor* - 396-124-65-26 Wt. 463.5g.

3 mi. N Summit Goose Nest Mtn., 4200 ft., Siskiyou Co., Calif.

May 22, 1935

422 ♀ *Eutamias senex*. - 223-100-35-21 Wt. 88.3g. 4 Embs. x 33 mm.

423 ♂ *Ochotona schisticeps* - 142-12-28-20 Wt. 73.3g.

3600 ft.,
Little Shasta R., 3 1/2 mi. NW Summit Goose Nest Mtn., Siskiyou Co.,

Calif.

May 22, 1935.

424 ♀ *Citellus douglasii* - 423-183-55-24 Wt. 491g.

Little Shasta River, 3000 ft., 10 mi. E Montague, Siskiyou Co., Calif.

May 22, 1935

425 *Rana* sp.

Palmer
1935

Catalog

Little Shasta River, 2800 ft., 8 mi. E Montague, Siskiyou Co., Calif.

May 22, 1935

426 ♂ *Thryomanes bewickii* Wt. 10.2g.

May 23, 1935

✓ 427 ♀ *Thomomys bottae* - 200-67-28-5 Wt. 90.4g.

Klamath River, 2100 ft., 2 mi. S Hornbrook, Siskiyou Co., Calif.

May 24, 1935

428 ♂ *Geothlypus trichas* Wt. 10g. Coll. by D.H. Johnson

✓ 429 ♀ " " Wt. 10g. " " " " "

May 25, 1935

✓ ✓ 430 ♀ *Riparia riparia* Wt. 17.5g. (Forefoot 22 x 18)
+Skel. 431 ♀ *Scapanus latimanus* - 158-34-21-0 Wt. 62.5g.

May 26, 1935

✓ 432 ♀ *Peromyscus maniculatus* - 164-76-21-18 Wt. 23.5g. (Forefoot 230 x 20)
+Skel. 433 ♂ *Scapanus latimanus* - 183-42-24-0 Wt. 87g.

434 ♀ *Riparia riparia* - Wt. 15.3g. Coll. by D.H. Johnson.

435 " " Wt. 15g. " " " " "

Hilt, 2850 ft., Siskiyou Co., Calif.

May 27, 1935

436 ♀ *Thomomys bottae* - 180-60-26-5 Wt. 64g.

437 ♀ " " - 179-61-26-5 Wt. 63.5g.

438 ♂ " " - 162-54-26-5 Wt. 52.8g.

W. Fork Cottonwood Cr., 4000 ft., 4 1/2 mi. SW Hilt, Siskiyou Co., Calif.

May 27, 1935

439 ♀ *Eutamias townsendii* - 236-103-34-23 Wt. 97.6g.

440 ♂ *Junco* Wt. 17.5g.

Palmer
1935

Catalog

W. Fk. Cottonwood Cr., 3200 ft., 3 mi. SW Hilt, Siskiyou Co., Calif.

May 27, 1935

441 *Pituophis catenifer*

Klamath River, 2100 ft., 2 mi. S Hornbrook, Siskiyou Co., Calif.

May 28, 1935

442 ♂ *Melospiza melodia* - Wt. 23g Coll. by D.H. Johnson

443 ♂ " " Wt. 20.5g.

444 ♂ *Penthestes atricapillus* Wt. 10.5g.

445 ♀ *Geothlypis trichas* Wt. 10.2g.

May 29, 1935

~~lost 446~~ *Hyla regilla*

✓✓ 447 ♂ *Scapanus latimanus* - 182-38-23-0 Wt. 89.3g.

✓ 448 ♂ *Dipodomys heermanni* - 260-161-43-15 Wt. 45.4g.

✓ 449 ♂ *Peromyscus maniculatus* - 142-65-21-17 Wt. 15g.

✓ 450 ♀ *Microtus californicus* - 114-35-20-12 Wt. 18.6g

skel.
only. 451 ♀ *Riparia riparia* - Wt. 20.2g.

✓ 452 ♀ *Melospiza melodia* Wt. 20.6g. Coll. by D.H. Johnson

453 *Pipilo crissalis*. Wt. 60.2g. Coll. by D.H. Johnson

May 30, 1935

✓✓ 454 ♂ *Scapanus latimanus* - 184-42-22-0 Wt. 80.5g.

✓✓ 455 ♂ " " - 185-41-22-0 Wt. 79.8g.

Hd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

May 31, 1935

456 *Hyla*

457 "

458 "

459 "

Palmer
1935

Catalog

Nd. Doggett Cr. 5800 ft. Siskiyou Mts., Siskiyou Co., Calif.

May 31, 1935

460 *Hyla*

461 "

462 "

June 1, 1935

✓ 463 ♂ *Peromyscus boylii*? - 193-101-23-17

Wt. 24.7g.

✓ 464 ♂ " *maniculatus* - 166-80-21-17

Wt. 21.8g.

✓ 465 ♂ " " - 163-80-21-17.5

Wt. 20.9g.

✓ 466 ♂ " " - 161-75-21-17

Wt. 19.5g.

✓ 467 ♀ " " - 166-78-21-18

Wt. 22.8g.

468 ♀ " " 4 Embs. x 3 mm. - 156-72-20.5-16

Wt. 20g.

✓ 469 ♀ " " - 159-71-21-18

Wt. 22.5g.

470 *Hyla*

471 "

472 "

June 2, 1935

✓ 473 ♂ *Microtus californicus* (?) - 151-47-22-16

Wt. 33.6g.

SKEL. ONLY 474 ♂ *Sitta canadensis*. Wt. 10.6g.

SKEL. ONLY 475 ♀ " " Wt. 10.4g.

✓ 476 ♂ *Melospiza lincolni* (?) - Wt. 18.5g.

✓ 477 ♂ *Eutamias townsendii* - 249-115-38-28

Wt. 87.3g.

✓ 478 ♂ *Eutamias amoenus* - 208-102-33-19

Wt. 48g.

SKEL. ONLY 479 ♂ *Carpodacus purpureus californicus* Wt.

June 3, 1935

✓ 480 ♂ *Eutamias amoenus* - 209-99-33-19

Wt. 47.4g.
Testes enlarged.

✓ 481 ♂ *Thomomys monticola* - 200-71-26-6

Wt. 98g.

Palmer
1935

Catalog

Hd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

June 3, 1935

✓ 482 ♂ *Thomomys monticola* - 206-67-27-7

Testes enlarged.

Wt. 111.3g.

5 Embs. x 8 mm.

✓ 483 ♀ *Callospermophilus chrysodirus* - 274-100-41-23

Wt. 181g.

✓ 484 ♀ *Eutamias amoenus* - 220-99-33-20

Wt. 64.4g.

Testes enlarged

✓ 485 ♂ *Thomomys monticola* - 191-66-27-6.5

Wt. 97.8g.

✓ 486 ♀ *Cyanocitta stelleri*. Wt. 125g. Coll. by D.H. Johnson

June 4, 1935

✓ 487 ♀ *Eutamias townsendii* 243-110-37-22

Wt. 89.3g.

✓ 488 ♂ *Junco*

Wt. 17.5g. Coll. by D.H. Johnson

✓ 489 ♂ *Hylocichla guttata*

Wt. 23.2g. " " "

✓ 490 *Thamnophis*

June 5, 1935

✓ ✓ 491 ♀ *Scapanus latimanus* - 171-40-22-0 Wt. 59.3g.

✓ 492 ♀ *Thomomys monticola* - 196-72-25-6.5 Wt. 113g.

✓ 493 ♀ " " - 188-65-27-7 Wt. 83g.

✓ 494 ♀ " " - 198-68-26-7 Wt. 91.5g.

✓ 495 ♀ " " - 197-67-26-7 Wt. 79.2g.

June 6, 1935

✓ 496 ♂ *Sciurus douglasii* - 307-120-53-27 Wt. 252g.

✓ 497 ♂ *Eutamias townsendii* - 226-105-36-23 Wt. 79.8g.

✓ 498 ♂ " *amoenus* - 207-96-33-19 Wt. 48.3g.

✓ 499 ♀ " " - 213-99-33-19 Wt. 56g.

✓ Skull only. 500 ♂ *Microtus californicus*? - 136-50-20.5-12 Wt. 15g.

June 7, 1935

✓ 501 ♂ *Microtus californicus*? - 157-55-23-14 Wt. 31.5g.

✓ 502 ♀ *Microtus californicus*? - 130-49-21-12 Wt. 17.6g.

Palmer
1935

Catalog.

Nd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

June 7, 1935

Skull Only

Pick Up. 503

Scapanus latimanus

- ✓ 504 ♂ *Peromyscus maniculatus* - 169-82-22-18 Wt. 24.3g.
✓ 505 ♀ " " - 172-83-21-18 Wt. 23.8g.
✓ 506 ♂ *Junco*. Wt. 17.5g.

June 8, 1935

- ✓ 507 ♀ *Eutamias townsendii* - 232-101-36-22 Wt. 90.4g
✓ 508 ♀ " *amoenus* - 209-96-33-¹⁹ Wt. 57.6g.
✓ 509 ♂ *Junco*. Wt. 16.5g.
✓ 510 ♀ *Clethrionomys mazama* - [111]-[25]-18-11 Wt. 16.7g.
✓ 511 ♀ *Eutamias townsendii* - 250-110-37-23 Wt. 92g.
✓ 512 ♂ *Clethrionomys mazama* - 150-50-18-13 Wt. 28.1g.
(lost) 513 ~~*Peromyscus*~~

June 9, 1935

- ✓ 514 ♀ *Clethrionomys mazama* - 140-43-18-12 Wt. 27.5g.
✓ 515 ♀ " " - 123-42-18-12 Wt. 15.6g.
✓ 516 ♂ " " - 120-38-18-12 Wt. 15.6g.
✓ 517 ♀ *Microtus californicus?* - 171-61-21-15 Wt. 36.2g.
✓ 518 ♀ *Sciurus douglasii* - 342-143-53-25 Wt. 283g.
✓ 519 ♀ *Nuttallornis borealis* Wt. 35g.
✓ 520 ♂ *Clethrionomys mazama* - 147-49-18-13 Wt. 26.5g.
✓ 521 ♀ " " - 143-47-18-12 Wt. 20.5g.
where 522 ♀ *Eutamias amoenus* - 216-96-33-19 Wt. 59g.

June 10, 1935

- ✓ 523 ♀ *Eutamias townsendii* - 257-118-37-23 Wt. 92.8g.
✓ 524 ♀ *Callospermophilus chrysodeirus* - 264-93-38-21 Wt. 190g.

Palmer
1935

Catalog

Hd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

June 10, 1935

- ✓ 525 ♂ *Perisoreus obscurus* - Wt. 62g. Testes 0
✓ 526 ♂ *Clethrionomys mazama* - 137-47-17.5-11 Wt. 18.5g.
SKULL ONLY ✓ 527 ♀ " " - 112-36-17-10 Wt. 11.3g.

June 11, 1935

- SKEL. ONLY ✓ 528 ♂ *Clethrionomys mazama* - 156-55-18-13 Wt. 24.1g.
✓ 529 ♂ *Sorex howbridgii* - 119-53-13-8 Wt. 5.8g. Coll. by D. H. Johnson
Beaver Cr., 1800 ft., 1/2 mi. N Klamath R., Siskiyou Co., Calif.

June 11, 1935

530 *Gerrhonotus*

Donomore Meadow, 5800 ft., 15 mi. W Hilt, Siskiyou Co., Calif.

- ✓ 531 ♂ *Clethrionomys mazama* - ^{June 13, 1935} 114-37-18-12 Wt. 15.5g.
✓ 532 ♂ " " - 115-38-18-11 Wt. 11g.

June 14, 1935

- ✓ 533 ♀ *Clethrionomys mazama* - 120-42-18-12 Wt. 13g.
✓ 534 ♀ *Thomomys monticola* - 195-67-26-7 Wt. 87.6g.
✓ 535 ♂ *Eutamias amoenus* 200-90-32-19 Wt. 47.7g. Testes 0
✓ 536 ♂ *Perisoreus obscurus* Wt. 64.5g. Coll. by D. H. Johnson

June 15, 1935

- ✓ 537 ♀ *Microtus mordax* (?) - 180-65-22-15 Wt. 51.9g.
✓ 538 ♂ *Clethrionomys mazama* - 148-49-18.5-13 Wt. 24.5g.
✓ 539 ♂ " " - 145-50-19-13 Wt. 23.3g.
✓ 540 ♂ *Carpodacus cassinii* - Wt. 28.5g. Testes = 0
✓ 541 ♀ *Clethrionomys mazama* 135-45-18.5-13 Wt. 21.5g.
✓ 542 ♂ *Scapanus latimanus* 178-39-22-0 Wt. 77.5g.
✓ 543 ? *Perisoreus obscurus* Wt. 57.7g. Coll. by D. H. Johnson

Palmer
1935

Catalog

Donomore Meadow, 5800 ft., 15 mi. W Hilt, Siskiyou Co., Calif.

June 16, 1935

- ✓ 544 ♀ *Sorex vagrans*. 111-50-13-8 Wt. 4.3 g.
✓ 545 ♂ *Zapus pacificus* - 237-147-34-16 Wt. 29.1 g.
✓ 546 ♂ *Clethrionomys mazama* - 156-54-18-13.5 Wt. 23.3 g.
✓ 547 ♂ " " - 143-48-18-13 Wt. 22.2 g.
✓ 548 ♂ " " - 143-48-19-12 Wt. 21.7 g.
✓ 549 ♀ " " - 150-52-18.5-13 Wt. 27.5 g. 3 Embs x 12 mm.
✓ 550 ♂ *Eutamias townsendii* - 260-120-36-21 Wt. 89 g. 3 Embs. x 23 mm.
✓ 551 ♀ *Clethrionomys mazama* - 136-44-18-12. Wt. 28.7 g.

June 17, 1935

- ✓ 552 ♀ *Zapus pacificus* - 238-146-32-15.5 Wt. 25.1 g. 6 Embs. x 3 mm.
✓ 553 ♂ *Clethrionomys mazama* - 132-43-18-12 Wt. 16.5 g.

June 18, 1935

- ✓ 554 ♂ *Zapus pacificus* - 234-141-32-15 Wt. 23.6 g.

~~Seiad~~ Seiad Valley, 1400 ft., Siskiyou Co., Calif.

June 19, 1935

- ✓ 555 ♂ *Per. Penthestes atricapillus* Wt. 10 g. Testes = 0
✓ 556 ♀ *Dryobates pubescens*. Wt. 29.6 g.

June 20, 1935

- ✓ 557 ♀ *Neotoma fuscipes* - 400-201-41-29 Wt. 247 g.

June 21, 1935

- ✓ 558 ♂ *Thomomys bottae* - 202-70-30-6 Wt. 91.5 g.
✓ 559 ♂ " " - 217-70-28-6 Wt. 142.4 g.
✓ 560 ♀ " " - 218-66-28-6 Wt. 121 g.
✓ 561 ♀ " " - 210-67-30-6 Wt. 99.7 g.
✓ 562 ♂ " " - 214-65-30-6 Wt. 115.7 g.

Palmer
1935

Catalog

Seiad Valley, 1400 ft., Siskiyou Co., Calif.

June 21, 1935

✓ 563 ♀ *Thomomys bottae* - 185-57-28-5 Wt. 73.8 g.

✓ 564 ♀ " " - 201-67-29-6 Wt. 101.5 g.

✓ 565 ♂ *Agelaius phoeniceus* Wt. 60 g.

Clear Creek, 1400 ft., 3 mi. W Klamath River, Siskiyou Co., Calif.

June 23, 1935

✓ 566 ♀ *Peromyscus maniculatus* - 176-85-21-18 Wt. 25 g.

✓ 567 ♂ " " - 174-85-21-16.5 Wt. 16.8 g.

568 *Crotalus oregonus*

✓ 569 ♂ *Lanius solitarius cassinii* Wt. 15 g. Testis = ○

June 24, 1935

✓ 570 ♂ *Neurotrichus gibbsii* - 114-40-15.5-0 Wt. 9.5 g.

✓ 571 ♀ *Neotoma fuscipes* - 400-202-39-29 Wt. 192.6 g.

✓ 572 ♀ *Neotoma* " " - 295-151-37-26.5 Wt. 100 g.

✓ 573 ♀ *Peromyscus maniculatus* - 179-89-21-19 Wt. 19 g.

✓ 574 ♂ " " - 163-78-21-19 Wt. 20 g.

575 Salamander

576 "

577 Rana.

} Taken in Four Mile Creek within 1/4 mi. of
its mouth at Clear Creek

June 25, 1935

578 Salamander

579 "

580 "

581 Rana

} Taken in Four Mile Creek near Clear
Creek.

582 *Crotalus oregonus*

Skeleton ONLY ✓ 583 ♂ *Lanius solitarius cassinii* Wt. Testis = ○

Palmer
1935

Catalog

Clear Creek, 1400 ft., 3 mi. W Klamath River Siskiyou Co., Calif.

June 25, 1935

584 Salamander

585

"

586

"

} Taken in Slippery Creek within $\frac{1}{2}$ mi.
of its mouth on Clear Creek.

Skull
only

587 ♂ *Peromyscus truei* - 220-116-24-19 Wt. 28.8 g.

June 26, 1935

588 ♂ *Peromyscus truei*. - 209-115-25-23 Wt. 28 g.

589 ♂

"

- 178-90-24-23 Wt. 21.4 g.

Skull
only

590 ♀

"

- 186-94-23-20.5 Wt. 23.5 g.

591 ♂

"

- 195-108-23-21 Wt. 21.4 g.

Klamath R., 1000 ft., mouth of Clear Cr., Siskiyou Co., Calif.

June 26, 1935

592 *Lampropeltis zonata*

June 27, 1935

593 ♂ *Peromyscus truei* - 188-95-23-22.5 Wt. 22.5 g.

3 mi. S Two Springs, T. 17 N., R. 3 E., San Bernardino Co., Calif.

594 *Colonyx variegatus*. Coll. Mar. 27, ¹⁹³⁵ Died in captivity June 27, 1935

Klamath R., 1000 ft., mouth of Clear Creek, Siskiyou Co., Calif.

June 27, 1935

(Foot 22 x 19)

595 ♂ *Scapanus latimanus* - 186-43-22-0 Wt. 77.6 g.

Klamath R., 1000 ft., $1\frac{1}{2}$ mi. S mouth of Clear Creek, Siskiyou Co., Calif.

June 27, 1935

596 *Rana boylei*

597 Salamander

Palmer
1935

Catalog

Indian Creek, 3400 ft., 12 mi. NW Happy Camp, Siskiyou Co.,

Calif.

June 28, 1935

598 *Triturus torosus*

599 " "

600 " "

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co., Calif.

June 29, 1935

3 Embryos x 28 mm.

✓ 601 ♀ *Eutamias townsendii* - 254-110-35-22 Wt. 105.8 g.

✓ 602 ♀ " " - 252-108-34-22 Wt. 99 g.

✓ 603 ♂ " " - 254-111-35-22 Wt. 84.7 g.

✓ 604 ♂? *Dryobates villosus* - Wt. 73.6 g Testis = 0

✓ 605 ? (Juv.) " " - Wt. 57.5 g. Coll. by D. H. Johnson

July 1, 1935

✓ 606 ♂ *Microtus mordax* - 203-77-23-15 Wt. 58.8 g.

✓ 607 ♀ " " - 180-65-22-13 Wt. 37 g.

✓ 608 ♀ " " - 152-54-22-14 Wt. 25.4 g.

✓ 609 ♂ *Peromyscus maniculatus* - 173-86-21-18 Wt. 23.1 g.

✓ 610 ♀ " " - 189-96-22.5-18 Wt. 25 g.

611 ♂ *Microtus mordax* - 210-81-23-15 Wt. 55.8 g.

July 2, 1935

612 ♀ *Dendrogapus obscurus* - Wt. 800 g.

Del Norte - Siskiyou Co. Line, 5600 ft., 5 3/4 mi. S Oregon Line, Calif.

July 2, 1935

613 ♀ *Eutamias amoenus* - 223-98-32-19 Wt. 63.4 g.

614 ♂ *Passerella iliaca* - Wt. 30.1 g. Testis = 0

615 ♂ " " Wt. Testis = 0

✓ 616 ♂ " " Wt. Testis = 0

Palmer
1935

Catalog

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co.,
Calif. July 2, 1935

- ✓ 617 ♀ *Clethrionomys mazama* - 117-35-18-12 Wt. 13g.
✓ 618 ♀ " " - 118-34-17.5-11 Wt. 14.2g.
✓ 619 ♂? *Scapanus latimanus* - 184-44-22-0 Wt. 85.4g.

July 3, 1935

- ✓ 620 ♂ *Scapanus latimanus* - 176-41-21-0 Wt. 72.5g.
✓ 621 ♂ *Clethrionomys mazama* - 148-48-18.5-12 Wt. 27.2g.
✓ 622 ♀ " " - 154-51-19-13 Wt. 29.3g.
✓ 623 ♂ *Microtus mordax* - 203-74-23-14 Wt. 60.8g.
skull only
✓ 624 ♀ " " - 202-73-22-14 Wt. 46.7g.
✓ 625 ♀ *Clethrionomys mazama* - 124-38-17-11.5 Wt. 14.7g.
✓ 626 ♂ *Microtus mordax* - 191-69-22-15 Wt. 48g.
✓ 627 ♀ *Picoides arcticus* - Wt. 66.5g.

July 4, 1935

- ✓ 628 ♂ *Clethrionomys mazama* - 142-47-19-12 Wt. 24g.
✓ 629 ♂ " " - 145-49-19-12 Wt. 23.3g.
✓ 630 ♀ *Thomomys monticola* - 197-69-27-6.5 Wt. 96.2g.
✓ 631 ♀ " " - 210-73-28-7 Wt. 110.7g.

July 5, 1935

- ✓ 632 ♂? *Sorex palustris* - 147-69-20-2 Wt. 12g.
✓ 633 ♀ *Zapus pacificus* - 245-153-33-15 Wt. 25.1g.
✓ 634 ♂ *Thomomys monticola* - 222-76-27-7 Wt. 104.3g.
635 ♀ " " - 208-73-28-7.5 Wt. 97g.
✓ 636 ♀ *Microtus mordax* - 165-56-21-12.5 Wt. 37g.
✓ 637 ♂ " " - 164-61-22-14 Wt. 40.2g.
✓ 638 ♀ *Thomomys monticola* - 198-66-26-6 Wt. 87.1g.

Palmer
1935

Catalog

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co.,
Calif.

July 5, 1935

✓ 639 ? *Sorex Sphyrapicus ruber* - Wt. 41.5 g. Coll. by D. H. Johnson

July 6, 1935

✓ 640 ♂ *Aplodontia rufa* - 344-22-55-22 Wt. 1134 g. Coll. by D. H. Johnson

✓ 641 ♂ " " - 322-27-56-22 Wt. 932 g. " " " "

✓ 642 ♀ *Thomomys monticola* - 200-73-26-6.5 Wt. 77 g.

✓ 643 ♂ *Microtus mordax* - 193-69-23-14 Wt. 55.7 g.

✓ 644 ♀ " " - 184-66-22-14 Wt. 46.8 g.

✓ 645 ♀ " " - 190-69-22-14 Wt. 48.1 g.

July 7, 1935

✓ 646 ♀ *Neosorex palustris* - 158-75-20-5 Wt. 14 g. 4 Embryos x 7 mm.

✓ 647 ♂ *Microtus mordax* - 172-59-22-13 Wt. 43.5 g.

✓ 648 ♂ " " - 181-65-23-14 Wt. 44 g.

✓ 649 ♂ " " - 173-62-22-13 Wt. 33.3 g.

✓ 650 ♀ " " - 184-67-23-13 Wt. 43.9 g.

✓ 651 ♂ " " - 184-63-22-14 Wt. 48 g.

✓ 652 ♂ *Picoides arcticus* - Wt. 73.2 g. Testis = 0

✓ 653 ♂ *Dryobates villosus* Wt. 73.9 g. Testis = 0

July 8, 1935

✓ 654 ♂ *Sorex bendirii* - 140-56-17-8 Wt. 12.6 g.

✓ 655 ♀ *Sorex palustris* - 158-73-21-6 Wt. 17 g. 4 Embryos

✓ 656 ♂ *Zapus pacificus* - 237-145-32-16 Wt. 26.7 g.

✓ 657 ♂ " " - [235]-[131]-32-16 Wt. 26.7 g.

✓ 658 *Sorex palustris* - 151-72-21-5 Wt. 11 g.

✓ 659 ♀ *Sciurus douglasii* - 342-139-52-26 Wt. 277.4 g.

✓ 660 ♀ *Eutamias amoenus* - 210-91-31-16 Wt. 64.8 g.

Palmer
1935

Catalog

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co., Calif.

July 8, 1935

- ✓ 661 ♂ *Hylorhina* Wt. 28.7 Coll. by D. W. Johnson Testis = ○
✓ 662 ♂ *Selasphorus rufus* Wt. 3.9g Testis = ○

July 9, 1935

- ✓ 663 ♂ *Zapus pacificus* - 232-142-32-16 Wt. 25.1g.
✓ 664 ♂ " " - 233-141-32-16 Wt. 28.2
✓ 665 ♂ " " - 235-147-33-15 Wt. 22.7
✓ 666 ♂ *Junco oreganus* - Wt. 18.2g. Testis = ○

1 mi. NW Little Grayback, 5400 ft., Siskiyou Mts., Del Norte Co., Calif.

July 9, 1935

- ✓ 667 ♀ *Callospermophilus chrysodermus* - 255-91-39-21 Wt. 19.2g.
E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co., Calif.

July 11, 1935

668 Feces from nest of *Phenacomys longicaudus* (?)

where? 669 Nest of *Phenacomys longicaudus*.

670 *Rana boylei*

✓ 671 ♀ *Myotis*

89-40-10-14 Tr. 8 Wt. 5.8g.

July 12, 1935

(Forefoot 18x23)

✓ 672 ♂ *Scapanus latimanus* - 190-43-23-0 Wt. 75.2g.

✓ 673 ♀ *Hylorhina guttata* - Wt. 21g.

✓ 674 ♂ *Lasionycteris noctivagans* - 102-42-9-16 Tr. 8 Wt. 10.2g.

✓ 675 ♀ *Myotis*

- 83-37-10-14 Tr. 8 Wt. 6.1g.

✓ 676 ♀ *Myotis*

- 83-37-9-14 Tr. 8 Wt.

July 13, 1935

✓ 677 ♀ *Eutamias townsendii* - 244-115-95-20 Wt. 74.6g.

✓ 678 ♀ *Microtus californicus* - 163-52-22.5-14 Wt. 37.7g.

✓ 679 ♀ *Dryobates villosus* - Wt. 65.7g.

Palmer
1935

Catalog

E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co., Calif.

July 13, 1935

Skull
only

- 680 ♂ *Lanius solitarius cassini* - Wt. 10.7g.
681 ♂ *Eptesicus fuscus* - 123-48-12-17 Tr. 8 Wt. 17g.
682 ♀ *Myotis* - 84-39-10-14 Tr. 8 Wt. 5.8g.
683 ♀ " - 84-38-11-14 Tr. 8 Wt. 5.8g.

July 14, 1935

- 684 ♂ *Microtus californicus* - 189-60-24-16 Wt.
685 ? *Certhia familiaris* - Wt. 8.7g.
686 *Thamnophis ordinoides*.
687 ♂ *Eptesicus fuscus* - 118-50-13-18 Tr. 8 Wt. 15g.

July 15, 1935

- 688 *Coluber constrictor*
689 *Junco oreganus* - Wt. 17.6g.
690 " " - Wt. 17.3g.
691 " " - Wt. 16.5g.
692 ♀ *Citellus douglasii* - 293-124-48-23 Wt. 145g.

1 mi. E mouth of Dunn Cr., 3200 ft., Del Norte Co., Calif.

July 15, 1935

Skull Only

Pick Up.

Skull Only

Pick Up.

- 693 *Ursus americanus* - Coll. by G. L. Hobart
694 *Odocoileus columbianus* - Coll. by G. L. Hobart

E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co., Calif.

July 15, 1935

- 695 ♀ *Empidonax*? - Wt. 23.2g.

July 16, 1935

- 696 ♂ *Ceryle alcyon* - Wt. 172g. Coll. by D. H. Johnson Testis = O
697 ♂ *Clethrionomys magama* - 146-50-19-12 Wt. 23.4g.

Palmer
1935

Catalog

Rowdy Cr., 1 1/2 mi. E Smith River, Del Norte Co., Calif.

July 16, 1935

698 *Thamnophilis sirtalis*

699 "

✓ 700 ♀ *Myotis*

- 83-36-10-15 Tr. 8

July 17, 1935

✓ 701 ♂ *Citellus douglasii* - 508-218-60-27

7 mi. ENE Smith River, 1800 ft., Del Norte Co., Calif.

July 18, 1935

✓ 702 ♀ *Peromyscus maniculatus* - 186-96-21-18 Wt. 19.2 g.

✓ 703 ♂ " " - 183-94-22-17.5 Wt. 17 g.

✓ 704 ♂ *Junco oreganus* - Wt. 16.2 g. Testis = ○

✓ 705 ♀? *Oreortyx picta* - Wt. 22.6 g. Coll. by D.H. Johnson

July 19, 1935

706 ? *Chamaea fasciata* - Wt. 14.9 g.

707 ♂ " " - Wt. 14.9 g. Testis = ○

708 *Thamnophilis sirtalis* -

Wimer Spring, 1800 ft., 7 mi. E Smith River, Del Norte Co., Calif.

July 19, 1935

✓ 709 ♀ *Eutamias townsendii* - 255-110-37-21 Wt. 103.8 g.

July 20, 1935

✓ 710 ♂ *Peromyscus truei* - 204-110-24-24 Wt. 31.2 g.

✓ 711 ♀ " " - 215-110-24-23 Wt. 32.5 g.

✓ 712 ♀ " " - 215-113-24-23 Wt. 31.2 g.

✓ 713 ♂ " " - 210-111-24-~~23~~²³ Wt. 28.6 g.

✓ 714 ♂ " *maniculatus* - 177-88-21-18 Wt. 21.7 g.

✓ 715 ♂ " " - 187-94-21-18 Wt. 20.7 g.

Palmer
1935

Catalog

Wimer Spring, 1800 ft., 7 mi. E Smith River, Del Norte Co., Calif.

July 20, 1935

- ✓ 716 ♂ *Hylocichla guttata* - Wt. 22.7g. Testis = ○
7 mi. ENE Smith River, 1800 ft., Del Norte Co., Calif.

July 21, 1935

- ✓ 717 ♂ *Aplodontia rufa* - 317-35-50-23 Wt. 900g.
✓ 718 ♂ " " - 303-41-52-23 Wt. 630g.

Hole in The Ground, 1200 ft., 7½ mi. ENE Smith River, Del Norte Co., Calif.

July 21, 1935

- ✓ 719 ♂ *Sciurus douglasii* - 310-138-48-26 Wt. 216g.
✓ 720 ♂ " " - 1292-102-50-26 Wt. 240g.

Wimer Spring, 1800 ft., 7 mi. E Smith River, Del Norte Co., Calif.

July 21, 1935

- 721 ? *Pipilo maculatus* - Wt. 37.5g. Coll. by D. H. Johnson,

Low Divide, 1000 ft., 6½ mi. E Smith River, Del Norte Co., Calif.

July 22, 1935

- ✓ 722 ? *Aphelocoma californica* - Wt. 82g. Testis = ○
✓ 723 ♂ " " Wt. 99g. Coll. by D. H. Johnson
8 mi. E Crescent City, Del Norte Co., Calif.

July 23, 1935

- ✓ 724 ♀ *Sorex ^{pacificus} bendirii* - 157-67-18-10.5 Wt. 15.5g. 3 Embryos x 7mm. Coll. by D. H. Johnson
✓ 725 ♂ " *vagrans* - 120-56-15-8 Wt. 5.2g. " " "
✓ 726 ♂ *Sciurus douglasii* - 1296-101-49-23 Wt. 235g.

Bald Hill, 9 mi. E Crescent City, Del Norte Co., Calif.

July 23, 1935

- ✓ 727 ♀ *Junco oreganus* - Wt. 18g. Coll. by D. H. Johnson
✓ 728 ♂ " " - Wt. 19.8g. Testis = ○ " " "
✓ 729 ♂ " " - Wt. 18.9g. Testis = ○ " " "

Palmer
1935

Catalog


Bald Hill, 9 mi. E Crescent City, Del Norte Co., Calif.

July 23, 1935

- 730 ♂ *Zonotrichia leucophrys* - ^{Testis = 1} Wt. 27.5g Coll. by D.H. Johnson
731 Juv. " " - Wt. 27.4g. " " "
732 ♀ " " - Wt. 22g. " " "
733 ♀ *Pipilo maculatus* - Wt. 36.2g " " "

Banning, Riverside Co., Calif.

Revived from A.L. Brankamp about Apr. 7. died July 23

- 734 *Coleonyx variegatus*
- 

Palmer
1935

Itinerary

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood,
Siskiyou Co., Calif.

May, 10. Left Berkeley at 3 P.M. May 8, with D.H. Johnson in the Dodge truck. Drove via Carquinez Bridge, Vallejo, Sacramento, Willows, to a point 7 mi. S Corning, where we camped for the night.

This place was open grassland, the grass ^{at} out 4-8 inches tall. The soil was rather coarse reddish gravel.

About 5 A.M. ^{May 9}, Johnson and I each shot a Horned Lark, of which there were great numbers around. Then we drove on to Weed via Red Bluff, and Sacramento Canyon. At Weed, we stocked up with groceries and then drove to the S end of Shasta Valley where we hunted for a camp site and finally camped about 5:30 P.M. at the locality given at the head of the page.

This morning, I went over a low hill to the E, across Parks Creek, and looked for gopher workings. The area looked favorable for gophers but no sign of them could be found. Then worked back N toward the creek again and found gopher workings on a

Palmer
1935

Itinerary

Parker Creek, 2900 ft., 1 1/2 mi. SW Edgewood,
Siskiyou Co., Calif.

May 10
Cont'd.

N slope of the hill, well down toward the flat. Here, made 8 sets for gophers in heavy black adobe soil. The ground was covered with low, fine, annual grasses with a few scattered low bushes of Artemisia. The area to the E where I found no gopher sign is, as near as I can tell, the same. The soil and plants look to be the same as here.

Under a board in a meadow, found a yellow-bellied Racer, which later got away.

Birds seen were: Audubon Warbler; in the willows; Ash-Throated Flycatcher, perched in the lower limbs of a Yellow Pine; Crow, flying over and in the cultivated fields; Calif. Jay, one or two flying over; Yellow Warbler, in the willows and alders along the stream; Cliff-Swallow, a flock, cawking about over a newly plowed field; Western Robin; Brewer Blackbird, Redwing Blackbird, Meadowlark, Killdeer - all seen in the open grassland; Chickadee

Palmer
1935

Itinerary

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood,
Siskiyou Co., Calif.

May 10
cont'd.

(Sp.?), Lazuli Bunting, Golden
Pileolated Warbler, all seen along the
stream in willows, alder, and Red
birch; Mallard Duck, 1 pr. on a large
irrigation canal; Green Heron, flew
overhead.

In P.M. went out to gopher traps
and on the way, set out 35 gov-
size mouse ^{traps} in low grass with
scattered bushes, 3-4 ft. high, of
Ceanothus cuneatus, Quercus
garryana and a few small Pinus
ponderosa. Didn't have anything in
the gopher sets. On the way back to
camp, caught a Hyla in the grass.

May 11

In 35 mouse traps, caught mammals
of the following species: Microtus
californicus, 1; Reithrodontomys megalotis,
1; Peromyscus truei (?), 4; Peromyscus
maniculatus, 8. Caught nothing in
8 sets of 11 gopher traps.

Shot a Warbling Vireo from the branches
of an Oak. New birds seen this
morning are: Buzzard, 1 pr. flying over;
Cooper Hawk, 1 flying over; Bush-tits,

Palmer
1935

Itinerary

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood,
Siskiyou Co., Calif.

May 11
cont'd.

several seen in the brush; Spotted Towhees, 1 in the brush; Flicker, heard several times from a distance; Hairy Woodpecker, 1 heard and seen in a dead Yellow Pine; Chipping Sparrow, common in brush along the stream and up in the small Yellow Pines; Lewis Woodpecker (seen yesterday but omitted), very common in the Pines, oaks and on fence posts in the fields.

In the afternoon went up on the hill in the oaks. There shot a Slender-Billed Nuthatch. A new bird seen there was the Black-throated Gray Warbler. Visited gopher traps again but had caught no gophers.

May 12. Took in gopher traps this morning. ~~Shot~~ Caught one ♀ in the 11 traps. Shot a White-crowned Sparrow, the first seen or heard, in the Ceanothus on the hill to the E of us. A new bird seen this morning was a Wren (Vigors?) which was singing lustily from a Crataegus douglasii. I couldn't approach close enough to identify the bird other than as a Wren.

Palmer
1935

Itinerary.

Parkes Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siskiyou Co., Calif.

May 12
Cont'd.

In The afternoon, drove to Gazelle with Johnson. We looked for gopher workings W of Gazelle, but couldn't find any. It appeared to be too dry here for them. Shot 6 Horned Larks in the dry fields of grass or grain. Most of them were shot from fence posts along the road. This place designated as: 3 mi. NW Gazelle, 2750 ft., Siskiyou Co., Calif.

We then drove back toward Gazelle on the main highway and turned off toward the E about 1 mi. N Gazelle. We found a place along this road, where there was quite a patch of very fine sand, drifted up into low dunes and overgrown with Artemisia sp. Here we stopped and set 25 gov.-size mouse traps. This place we called: 3 mi. NE Gazelle, 2750 ft., Siskiyou Co., Calif. We then drove on till we crossed Parkes Creek. Here we stopped and looked for gopher workings but they were rather scarce and I only made 3 sets. This place we designated as: Parkes Creek 2750 ft., 3 mi. NW Edgewood, Siskiyou Co., Calif.

May 13 3 mi. NW Gazelle, 2750 ft., Siskiyou Co., Calif.

In 12 gov.-size mouse traps, caught

Palmer
1935

Itinerary

May 13
cont'd.

4 Dipodomys heermanni. Tracks were very thick, and all of the traps were sprung.
Parker Creek, 2750 ft., 3 mi. NW Edgewood, Siskiyou Co., Calif. In the 3 gopher sets caught one ♀ Thomomys bottae (?). Saw several new birds here: Bullock Oriole, common in the cottonwoods, Western Kingbird, two seen in the cottonwoods, Song Sparrow, the first and only one seen or heard so far was shot from a willow in an island in the creek. The fact that there were cat-tails in the stream may account for its presence there and not at other places farther up the creek. Also saw a Lepus californicus on a low hill in Artemisia.

We drove back and stopped at The Mills Ranch which is at: Shasta River, 2850 ft., 2 mi. N Edgewood, Siskiyou Co., Calif. Here I made 5 gopher sets in an alfalfa patch. I talked with the Mills boy (about 18 yrs. old) He says he has trapped for years around the ranch and caught ^{Coyotes} Striped Skunk, Spotted Skunk and "lots of Mink". He had never heard of any Raccoon along the river. He had never heard of Ring-tailed Cats. He reports that they get lots of moles around the yard. ^{We saw remains of one.}

Palmer
1935

May 13
cont'd.

Itinerary

Birds seen at The Mills' Ranch included two species not previously recorded for this trip: Cedar Waxwings, a flock in the fruit trees around the house and Willow Goldfinch, several flocks in the fields.

Returned here about 4 P.M. and found one Thomomys battae in the 5 sets. Parker Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siskiyou Co., Calif.

In the evening, went E of camp on the low hill and set 46 gov.-size mouse traps. Part of these were set along an old rail fence in Quercus garryana. Part were set along the hilltop in low annual grass and Artemisia tridentata. Part were set in runways in annual grasses under bushes of Ceanothus cuneatus. Also set 2 rat traps near a woodrat nest in Ceanothus and made two gopher sets on top of the hill.

May 14. Caught mammals of the following species: Peromyscus maniculatus, 14; P. truei, 6; Reithrodontomys megalotis, 1; Microtus californicus, 2; Sylvilagus nuttalli, 1 (very young in 46 gov.-size mouse traps. Caught 1 Neotoma fuscipes in 2 rat traps. Caught 1 Thomomys



Palmer
1935

Itinerary

May 14 Parkes Creek, 2900 ft., 1 1/2 mi SW Edgewood, Siskiyou Co. Calif.
cont'd. bottae in one of the two gopher sets. I left the other set out.

A new bird seen this morning was the Brown Towhee. Saw a pair in the Ceanothus Thicket but could not get a shot. Another new bird was the Horned Owl. A flock of crows was seen circling about an Incense Cedar and making a great racket. Upon investigation, the Horned Owl flew out of the tree and was followed by the crows. At intervals during the morning, the owl would be seen flying along, with a flock of cawing crows following behind.

In the afternoon, we were visited by Mr. Duke who lives across the highway from our camp. He stayed several hours and talked, but didn't have much to say about the birds or mammals of the region. He reported that Antelope were formerly common between our camp and Gazelle. He says Porcupines are common, as are Deer. He said that two years ago, an old ♀ Bear and her two cubs wintered up back of his barn.

It has been raining off-and-on all evening. Have only one gopher set out, no other traps.

Palmer
1935

Itinerary

May 15

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siackiyon Co., Calif.

As we are breaking camp today, a general survey of this area, as seen by us since May 9, follows:

The S (Upper) end of Shasta Valley, which we have covered to some extent from our base camp is largely Upper Sonoran with tongues of Incense Cedar and Yellow Pine following the streams down a short way from the mountains. Transition apparently begins here at the extreme S end of the valley, almost as soon as the level valley floor ends and the hills start more sharply upward. Farther N and W, there is a bare area between the valley floor and the Yellow Pine belt on the hills.

This end of the Shasta Valley, is watered largely by the Shasta River and its tributary streams: Parks Creek (on which we are camped) and Willow Creek which comes down from the mts. near Gazelle. The W part of the Valley near Gazelle is flat and dry and is in some places planted to wheat and alfalfa. The E side of the valley is apparently better watered, the streams apparently tending to flow in that direction where they meander thru flat winding valleys

Palmer
1935

Itinerary

May

15 (cont'd.) between jagged hills of volcanic rock.

Whenever it is possible, water from the stream has been diverted to irrigate the soil. Much of the open flat country thus irrigated is lush meadowland with a rank growth of perennial grasses. Contrasted with this are the dry areas which have only a short growth of annual grasses.

The vegetation in the typically Upper Sonoran parts of this end of the valley consists of several kinds of grasses, Artemisia tridentata, Ceanothus cuneatus, and Juniperus occidentalis (Rare on Parks Creek). The plants near ~~our~~ camp on Parks Creek are: Betula fontinalis, Alnus rhombifolia, Salix, Crataegus douglasii, Rhamnus purshiana, Sambucus glauca, Arctostaphylos manzanita, Quercus garryana, Pinus ponderosa, Libocedrus decurrens.

Birds observed or collected at our camp (according to generally preferred habitat) are: Streamside Habitat; Audubon Warbler, Yellow Warbler, Golden Pileolated Warbler, Long-tailed Chat, Warbling Vireo, Lazuli Bunting, Spotted Towhee, Brown Towhee, Chipping sparrow, White-crowned Sparrow, Song Sparrow (not at camp), Bush tit, Wren (sp?),

Palmer
1935

May 15
cont'd.

Itinerary

Parks Creek, 2900 ft., 1 1/2 mi. SW Edgewood, Siskiyou Co., Calif.

Green Heron, Mallard Duck.

Wet Meadow: Brewer Blackbird, Redwing Blackbird, Cliff Swallow, Barn Swallow, Killdeer, Savannah Sparrow, Crow.

Dry Meadow: Horned Lark (Gazelle), Meadowlark, Willow Goldfinch, Western Kingbird.

Pines and Oaks: Slender-billed Nuthatch, Black-throated Gray Warbler, Ash Throated Flycatcher, Lewis Woodpecker, Hairy Woodpecker, California Jay, Horned Owl, Flicker.

Shade trees in dry valley floor: Cedar Waxwing, Bullock Oriole, Sparrow Hawk, Linnet, Western Tanager.

Flying Over: Red-tailed Hawk, Buzzard.

Cares 11 mi. NE Weed, 3600 ft., Siskiyou Co., Calif.

Broke camp on Parks Creek and drove via Weed to the above locality where we made a one-night camp. Before dark, set 100 mouse traps. The country around here is practically all the same: Broken low ridges of volcanic rock with small, flat sandy areas between. A sparse growth of Artemisia tridentata and numerous



Palmer
1935

Itinerary

May 15
cont'd.

Caves 11 mi. NE Weed, 3600 ft., Siskiyou Co., Calif.
low animals. The entire country is covered by a moderately thick growth of Juniperus occidentalis with a very few stunted Pinus ponderosa.

May 16.

During the night it rained off and on. I was awakened several times by a Neotoma which chewed on the foot of my sleeping bag. It appeared to be unafraid of the flashlight. I set two traps hoping to catch it. Instead, caught a Dipodomys heermanni.

Caught mammals of the following species: Dipodomys heermanni, 22; Peromyscus truei, 5; P. maniculatus, 2; Perognathus parvus, 2; Neotoma fuscipes, 1 in 100 mouse traps.

Birds seen in this area: Red-tailed Hawk (See D.H. Johnson's notes for details of nest and contents), Meadowlark, Cedar Waxwing, Audubon Warbler, Hummer? Flycatcher, Violet-green Swallow, Bush-tit. Collected 2 California Jays and 1 Plain Titmouse. Spent 2 hours hunting in the rain, but saw no more Titmice.

Drove to Big Spring after noon. On the road saw: Western Kingbird, California Jay, Linnet, Lark Sparrow, Brown Towhee, Brewer Blackbird, ^{and} Redwing Blackbird.

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Itinerary

May 16
cont'd.

Big Spring, 2700 ft., Shasta Valley, Siskiyou Co., Calif.

Set up camp here in the rain. I didn't feel well, so went to bed about 6 P.M. Set no traps.

May 17

Camp here is at the edge of the Juniper country, much like that of the last camp. However, to the W and NW there is lots of green meadow land, largely boggy. Across the road to the W is a good-sized lake which is formed from several large springs. Around the edges are many tules, with lush grass coming down to the edge of the lake.

Shot one Lark Sparrow as he was singing from the top of a dead Juniper. Birds seen here this morning: Audubon Warbler, Pileolated Warbler, Yellow Warbler, Robin, Brewer Blackbird, Redwing Blackbird, Yellow-headed Blackbird, Song-sparrow, Meadowlark, Linnet, Lazuli Bunting, Chipping Sparrow, Wood Pewee and Western Kingbird.

In the afternoon saw a Plain Titmouse, shot at it, and missed. Johnson returned from setting his traps and reported what from his description must be a Yellow-throat. In the evening saw a duck of some kind fly rapidly in toward the

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Big Spring, 2700 ft., Shasta Valley, Siskiyou Co. Calif.
May 17 (cont'd) lake.

May 18. Johnson returned this A.M. with 3 Western Yellow-throats which he shot in the Tules. New birds seen this morning are: Willow Goldfinch, Killdeer, Bullock Oriole, Western Tanager, Western Bluebird, Crow, Hairy Woodpecker, Flicker.

In the afternoon, Johnson shot a Song Sparrow and I found a Lark Sparrow's nest in an alfalfa patch. The nest was surrounded by stems of alfalfa and was made up of grass lined with horsehair? and fine plant fiber. There were 5 eggs in the nest, all light bluish and splashed with black on the larger end.

Little Shasta River, 2900 ft., 8 mi. E Montague, Siskiyou Co., Calif.

Broke camp at Big Spring at 4 P.M. and drove via Grenada and Montague to this region where we spent considerable time trying to get permission to camp and finally had to camp beside the road. We talked to the owner of the ranch just west of us. He reports woodchucks in "Martens' meadows" Soz Table Rock.

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Itinerary

May 19. Little Shasta River, 2900 ft., 8 mi. E Montague, Siskiyou Co., Calif.

Got up early and hunted along the banks of the ^{river in} willows and wild-rose bushes. Here I shot what I think is a Willow Thrush, and saw one other. Other birds seen here were: Brewer Blackbird, Long-tailed Chat, Vigors Bewick Wren (nesting), Song Sparrow, Yellow Warbler, Green-backed Goldfinch, Redwing Blackbird, California Quail, Western Tanager.

Johnson picked me up and we drove E to D.C. Shelley's ranch where we left the truck and hiked around Table Rock to hunt woodchucks.

S. Base Table Rock, 3400 ft., 10 mi. E Montague, Siskiyou Co., Calif.

Looked around the upper part of Table Rock, but found no sign of woodchucks. Then went down into the meadow to the S and there found Marmots very numerous in the rock-piles in the meadow. I saw at least 15 (many probably young) in 3 small rockpiles and shot 2 (both juv.). Returned to Shelley's a little before noon and got permission from him to camp

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Itinerary

May 19
cont'd.

S. Base of Table Rock

Birds seen or heard on the trip after
Woodchucks: Canyon Wren, heard singing from
the high cliffs of Table Rock on the way over,
couldn't locate it. Looked and listened for it
on way back but was not seen or heard again.
Brewer Blackbird - common in the open
fields. Redwing Blackbird - common in
the wet meadows. Meadowlark - common
in open fields. Killdeer - in wet meadow.
Violet-green Swallow - many seen around
Table Rock

Little Shasta River, 3000 ft., 10 mi. E Montague,
Siskiyou Co., Calif.

Made camp at this place about noon.
Saw Vigors Bewick Wren carrying nest
material to a hole in a dead willow stub
about $6 \pm$ ft. from the ground. The hole
was about $1\frac{1}{4}$ " in diameter. Birds are
common around camp. This afternoon
saw Yellow Warbler, Golden Pileolated Warbler,
Western Tanager, Lewis Woodpecker, Crow,
California Quail, Lazuli Bunting, Hairy
Woodpecker, Meadowlark all in or very
near camp. Heard: Song Sparrow, Longtailed
Chat and Bullock Oriole. Saw Douglas
Ground Squirrel in a rock pile near camp.

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Itinerary

Little Shasta River, 3000 ft., 10 mi. E Montague, Siskiyou Co., Calif.

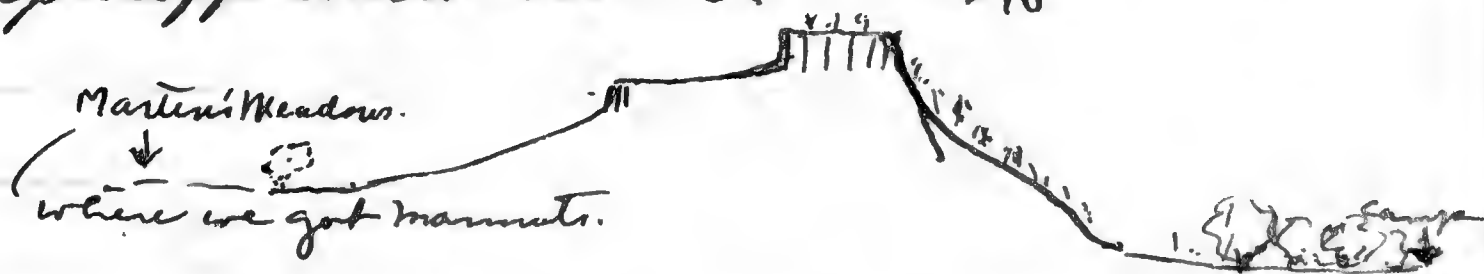
May 20. New birds seen in camp this morning:
Wood Pewee?, Western Kingbird, California Jay (flying over), Black-headed Grosbeak, Ash-Throated Flycatcher.

In the late afternoon went up the N. side of Table Rock which is about $\frac{1}{2}$ mi. from camp. From the valley level, it rises sharply. The slope covered with Juniperus occidentalis, small Pinus ponderosa and dwarf Quercus garryana. Between the trees it is dry and rocky with a sparse growth of annual grasses (Tridax and Bromus) and some Erodium. Table Rock is flat topped and has steep ^{rock} sides 50-75 ft. high. somewhat as in the sketch.



The cliffs run nearly E and W in the longest direction, the rock being much narrower N and S. On the S side there is a bench about 300 yds. wide with another steep cliff at its side. S ← → N

Martin's Meadows.
↓
where we got mammals.



There is some soil on top of the rock and scattered Juniperus and various grasses.

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Itinerary

May 20
cont'd.

Little Shasta River, 3000 ft.

and other low annuals. In the cliffs a few Gooseberry bushes were growing. Saw lots of Woodrat and Porcupine droppings in the broken jumbles of rock along the cliff. There were many Violet-green Swallows around the cliffs and a number of Rock-Wrens. I hunted all along the cliff for Canyon Wrens but did not see or hear any. Saw a Western Bluebird in the Garry Oaks. Heard a Western Redtail screaming down toward the end of the cliffs. On the way back met Johnson who reported hearing the Canyon Wren again in a part of the cliff I hadn't covered.

May 21 This A.M. went around to the S. side of Table Rock (Martin's Meadows) where I made 7 sets with #1 steel traps for marmots. On the way back to camp saw several young Citellus douglasii in the grass. They had dug small burrows close by a large burrow which I assumed to be the parents'. They showed little fear, allowing me to approach within 5 or 6 ft. before they ducked into the burrows. On the N slope leading up to Table Rock, I saw a Plain Titmouse in the Garry Oaks. It was very shy and I had to take a long shot with

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Itinerary

May 21
cont'd.

Little Shasta River, 3000 ft.

The "axe" and failed to get it. Saw a number of Woodrat nests along the creek bottom and saw several mole mounds in a damp meadow. Found a Gopher Snake in the tent when I returned.

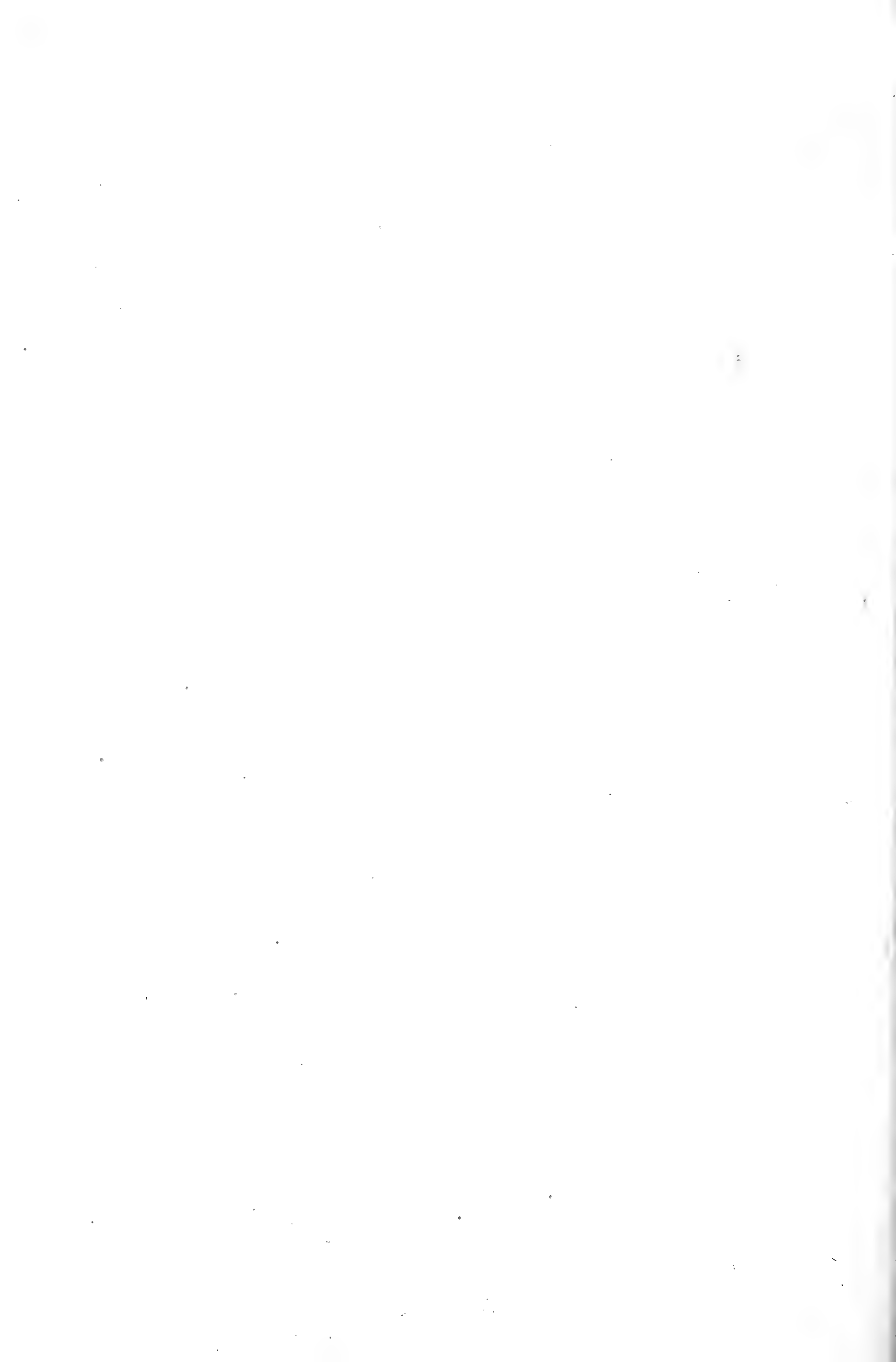
In the P.M. hunted along the banks of the stream and found a large Bufo and caught a small Rana of which I have seen several.

S. Base Table Rock, 3400 ft., 10 mi. E Montague, Siskiyou Co., Calif.

Johnson looked at my steel sets for Marmots and found one young one in a trap in a runway. The traps near burrow mouths had not been disturbed.

May 22 Little Shasta River, 3000 ft., 10 mi. E Montague, Siskiyou Co., Calif.

Got up early and drove with Johnson up the road that goes to Butte Valley following along Little Shasta River on the N slope of Goose Nest Mt. About 6 mi., by road, E of camp saw and shot at a Chickaree (Sciurus douglasii) as it was climbing up a Douglas Fir. Stopped at a rock slide where we hoped to get Conies but none were heard or seen. After about 45 min. moved down to another rock



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Itinerary

May 22
cont'd.

Little Shasta River, 3000 ft.

slide where we heard a cony. Here: 3 mi. N Summit Goose Nest Mt., 4200 ft., Siskiyou Co., Calif.

I shot a Cony (juv.) in the rock slide and a Eutamias senex as it was climbing a stump. Trees around this place were: Pinus ponderosa, Pseudotsuga taxifolia, Libocedrus decurrens, Pinus lambertiana and Abies concolor. Between the trees in some places were clumps of Manzanita and Ceanothus, from 3-6 ft. high.

Birds were rather scarce here, possibly due to extensive logging operations. Saw: Red-breasted Nuthatch, Stellar Jay, Calif. Jay?, Hairy Woodpecker, Chickadee (sp?) and some kind of Flycatcher.

On the way back to camp shot a Citellus douglasii at the bridge where the road crosses Little Shasta River. This locality designated as Little Shasta R., 3600 ft., 3 1/2 mi NW Summit Goose Nest Mtn., Siskiyou Co., Calif.

Returned to camp and then went over the hill to Martin's Meadow S of Table Rock and took in the Woodchuck traps. Found a young Marmot in the same trap that caught one yesterday. One other trap was sprung. On the way back to camp saw several Citellus douglasii.

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Itinerary

May 22
cont'd.

Little Shasta R., 3000 ft.

Caught a Rana that was sitting on a rock where we crossed the river near camp.

In P.M. drove W to the place where we camped the 1st night in this locality: Little Shasta River, 2800 ft., 8 mi. E Montague, Siskiyou Co., Calif. Here we set gopher traps, but the gophers are very scarce. Spent about 2 hrs. looking for gopher workings and made only 3 sets. Shot a Vigors Bewick Wren in the willows along the river. Followed a flock of Plain Titmouss around trying to get a shot but they are too wary. Other birds seen here were: Yellow Warblers, Long-tailed Chat, Brewer Blackbird, Redwing Blackbird, Western Tanager, Bullock Oriole, California Quail, Mourning Dove, Killdeer, Crow, and Green-backed Goldfinch. While setting the gopher traps, scared up a Lepus californicus. Returned to camp, looking for gopher workings on the way but found no more.

May 23 Little Shasta River, 3000 ft., 10 mi. E Montague, Siskiyou Co., Calif.

Camp is on the N side of the river not far from 2 good sized springs that here ~~and~~ flow down in separate streams, so there are

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Itinerary

May 23
cont'd.

Little Shasta R., 3000 ft.

several streams with only small areas between. This makes for a rank growth of vegetation. Along the streams there are thick tangles of willow and chokecherry with many large cottonwoods. There are also a few yellow pines scattered along the creek. The areas between the streams are generally damp ~~and~~ meadow with a heavy growth of perennial grasses. The area on either side of the streams is largely dry hard alkali with a moderately heavy growth of Bromus, Andropogon and Erodium. Where the streamside growth joins this dry open country, there are generally, large Garry Oaks and Cottonwoods. To the S of camp is Table Rock, a description of which will be found under notes for May 20.

Birds seen at this camp according to general habitat preference. Streamside: Song Sparrow, Lazuli Bunting, Yellow Warbler, Golden Pileolated Warbler, Vigors Bewick Wren, Thrush (sp.?), Long-tailed Chat. Large trees near stream: Chipping Sparrow, Black Headed Grosbeak, Western Wood Pewee, Ash-Throated Flycatcher, Bullock Oriole, Western Tanager, Lewis Woodpecker,

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Itinerary

May 23
cont'd.

Little Shasta River, 3000 ft.

Hairy Woodpecker, Linnet, Calif. Jay.
Open dry fields: Brewer Blackbird, Western Kingbird (Fences), Meadowlark, Lark Sparrow, Crow, Horned Lark. Wet Meadow: Redwing Blackbird, Killdeer. Mixed Garry Oak (small) and Juniper: Western Bluebird, Plain Titmouse, Tolmie Warbler, Calif. Quail. Rocky cliff: Rock Wren, Violet-green Swallow, Red-tailed Hawk, Canyon Wren (heard only) Flying over: Buzzard.

Birds seen on Goosenest Mt in conifers: Hairy Woodpecker, Red-breasted Nuthatch, Steller Jay, Mountain Chickadee.

Broke camp and drove via Montague, ~~and~~ Yreka, and Shasta Canyon to Hornbrook where we camped about 4 P.M. at the mouth of Cottonwood Creek near the Klamath River. Set 2 mole traps in surface runways of moles.

Klamath River, 2100 ft., 2 mi. S Hornbrook, Siskiyou Co., Calif.

May 24 One of the mole traps was sprung but failed to catch the mole. Set another mole trap in a fresh runway. Hunted around for gopher workings but could not find any. Mole workings are very

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Itinerary

Klamath River, 2100 ft., 2 mi. S Hornbrook, Siskiyou Co., Calif.

May 24
cont'd.

common in the damp places.

Johnson shot 2 Yellow-Throats which are quite common around here. He reports seeing Bank Swallows and a Kingfisher. Birds seen this A.M. : Yellow-Throat, Song Sparrow, Ash-Throated Flycatcher, Lewis Woodpecker, Brewer Blackbird, Redwing Blackbird, Crow, Western Tanager, Meadowlark, Lazuli Bunting, Long-tailed Chat, Green Heron, Red-Shafted Flicker.

Set the 4th mole trap in the evening.

May 25 Caught 1 Scapanus latimanus in 4 mole traps. Reset 1 trap in new surface ridge.

New birds seen around camp : Yellow Warbler, in willows; Downy Woodpecker, in willows; Willow Goldfinch, in willows; Bullock Oriole, in cottonwoods; Gull (sp?), along the river; Black-crowned Night Heron, flying down river. Found a Yellow-Throat's nest in Johnson-grass about 4 ft. tall.

In P.M. set 25 mouse traps around the dry flat near camp. This is hard baked adobe covered with dry fox tail grass. 5 ^{mouse} moentrapps were set around in deep grass by a small pool. Shot.

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Itinerary

May 25 Klamath River, 2100 ft., 2 mi. S Hornbrook
cont'd. a Bank Swallow near its nest hole in
a steep dirt bank of Cottonwood Creek.

May 26 Caught 1 Scapanus latimanus in 4 traps.
In 25 gov. size mouse traps caught 1
Peromyscus maniculatus and 1 Mus
musculus. Johnson brought in 2 Bank
Swallows. New birds today: Linnet,
Mourning Dove, Lark Sparrow, Barn
Swallow.

In afternoon drove N through Hornbrook
to Hilt with Johnson. W. of town along
The railroad tracks, we found gopher
workings common. Made 6 sets with 9 traps.
Saw surface workings of mole in a
damp ditch bank. Returned to camp -
Hilt, 2850^{ft.}, Siskiyou Co., Calif.

May 27 Caught 3 Thomomys bottae in 6 sets.
Then drove up W. Fl. of Cottonwood Creek
which runs generally SW from Hilt up
into the mountains.

W. Fl. Cottonwood Cr., 4000 ft., 4 1/2 mi. SW Hilt,
Siskiyou Co., Calif. Hunted for about an
hour here in the late morning. Shot
1 Eutamias townsendii, 1 Junco. Heard one
other chipmunk and saw Douglas
Ground Squirrels. This place is in

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Itinerary

May 27 W. Fork Cottonwood Cr., 4000 ft.

Cont'd. Typical Transition zone. The hillsides are covered with a rather thick growth of Pinus ponderosa, Abies concolor, Libocedrus decurrens, and Pseudotsuga taxifolia. Between these trees is a rather dense growth of brush 6-10 ft. high mostly Manzanita, Chinquapin and Coupliss(?).

Returned to camp at Hornbrook about noon. On the return trip got a gopher snake in the road at: W. Fork Cottonwood Cr., 3200 ft., 3 mi. SW Hilt, Siskiyou Co., Calif.

May 28 Klamath River, 2100 ft., 2 mi. S Hornbrook, Siskiyou Co., Calif.

No moles in the traps but one trap was sprung.

In A.M. hunted down Cottonwood Creek to the river in willows and cottonwoods. Shot a Song Sparrow and 2 Yellow-Throats. Saw the following birds: Yellow Warbler, Mourning Dove, Long-tailed Chat, Bank Swallow, Kingfisher, Horned Owl, Crow, Killdeer, Linnet, Green-backed Goldfinch, Lazuli Bunting, House Wren, Brewer Blackbird, Redwing Blackbird, Killdeer. Saw Muskrat tracks in the mud along the creek.

At camp shot a Black capped Chickadee.

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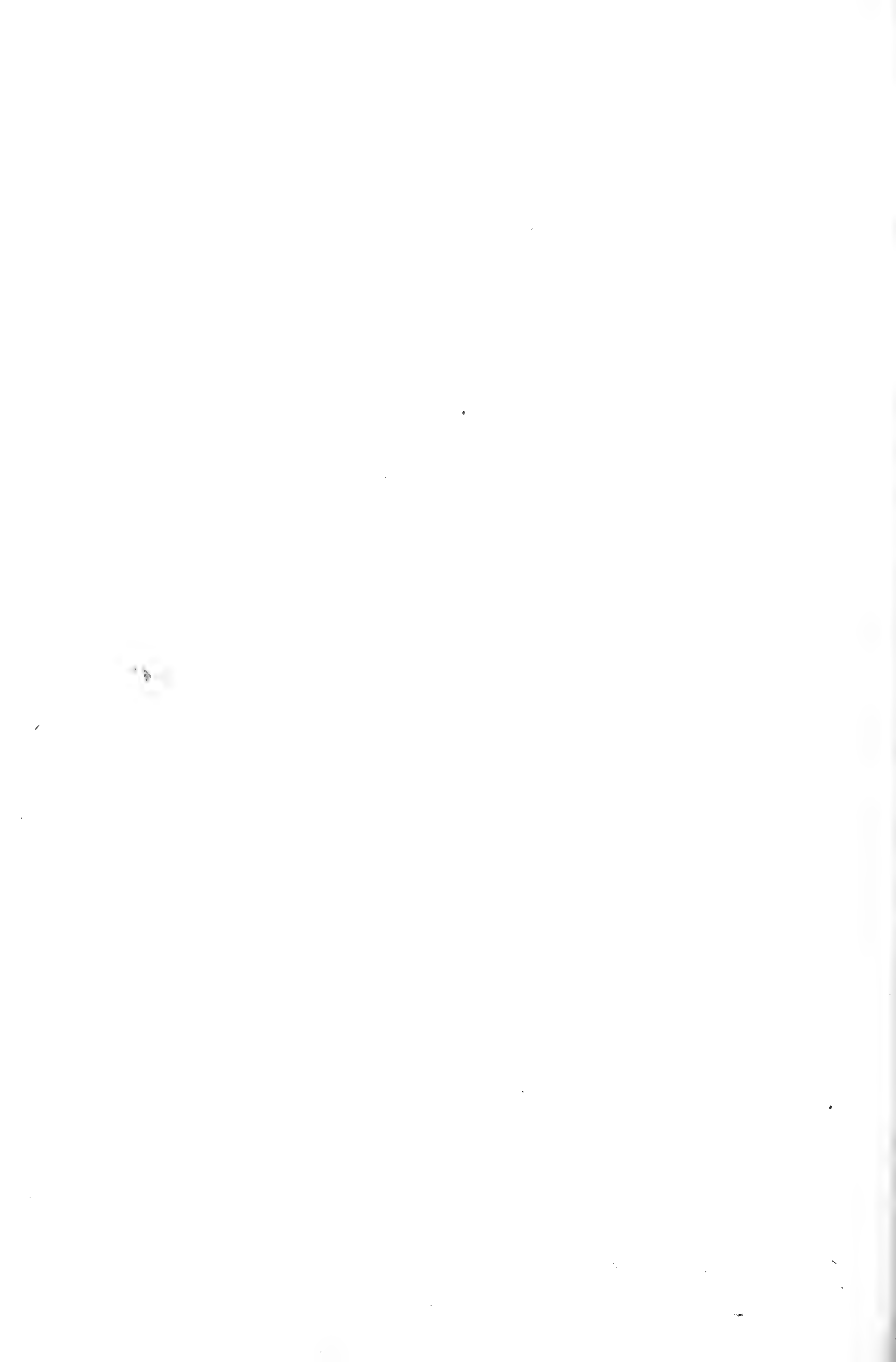
Itinerary

May 28 Klamath River, 2100 ft., 2 mi. S Hornbrook
cont'd. but lost it in the tall grass. Later shot
another one which I got. Both of these were
in the willows.

In P.M. set 35 mouse traps (gov. size) up
the creek from camp. About 25 were set
along the creek bank under willows
at the edge of the tall grass. About 10
traps were set in an old gravel pit and
sand pile in hopes of getting Dipodomys.
About 8 P.M. saw a Bat flying around
the willows near camp. It was rather large,
possibly Eptesicus.

May 29. Light rain last night. In the 4 mole traps
caught 1 Scapanus latimanus. In 35 gov.-
size mouse traps caught: 1 Dipodomys
heermanni, 1 Microtus californicus, 1 Peromyscus
maniculatus, 5 Mus musculus, 1 Hyla.
Rough winged

Shot a Bank Swallow which was flying
over a large pool with 2 other Bank Swallows,
2 Barn Swallows, 3 Few Swallows and
2 Cliff Swallows. Here saw a Kingfisher
fly from a hole in the bank. Other birds
seen were: Green Heron, Mourning Dove,
Brown Towhee, Brewer Blackbird, Redwing
Blackbird, Yellow-Throat, Yellow Warbler,
Crow, Song Sparrow, Ash-throated Flycatcher.



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Itinerary

May 29 Klamath River 2100 ft., 2 mi. S Hornbrook
cont'd. At camp birds were rather quiet probably because it was cold and cloudy. About 8:30 sun came out and birds started to move about and sing. Yellow Warbler, Yellow-Throat, Lazuli Bunting especially active.

May 30. Caught 1 Scapanus latimanus in 4 mole traps. Reset 2 traps in new runways. Packed specimens in A.M. + went in to town about noon. On way saw that mole trap was sprung. Took mole out, which was still alive and put it in the back of the truck. On return from town put the mole in a box of dirt where it was kept under observation until late in the afternoon.

Only traps out tonight = 4 mole traps.

May 31 One mole trap sprung but failed to catch the mole.

A description of the country around camp: Camp is on Cottonwood Creek, near its juncture with the Klamath River. Cottonwood Cr. is lined with willows and Cottonwoods with a heavy growth of grass 1-3 ft. high. Along the Klamath R. there are more Cottonwoods and also willows. Most of the adjoining fields are cultivated - planted to alfalfa and grain.

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Itinerary

May 31
cont'd.

Klamath R., 2100 ft., 2 mi. S Hornbrook

The uncultivated fields are largely grown up to foxtail grass, 4-6 inches high, which is already dry. On the S side of the Klamath R., the hills rise rather sharply, running up to Black Mt. which has some conifers starting at about the middle and running up to the top. To the W of camp, across the highway, there are hills which are largely covered with foxtail grass on their lower slopes but with Ceanothus cuneatus, Quercus garryana (scrubby), Juniperus occidentalis and a very few Pinus ponderosa in the gulches.

A list of birds seen at this locality since May 24 is as follows: Turkey Vulture, Cooper Hawk, Calif. Quail, Killdeer, Gull (sp?), Mourning Dove, Horned Owl, Kingfisher, Downy Woodpecker, Lewis Woodpecker, Red Shafted Flicker, Ash-throated Flycatcher, Cliff Swallow, Barn Swallow, Tree Swallow, Bank Swallow, Calif. Jay, Crow, House Wren, Robin, Yellow Warbler, Yellow-Throat, Long-tailed Chat, Redwing Blackbird, Brewer Blackbird, Meadowlark, Bullock Oriole, Lazuli Bunting, Linnet, Green-backed Goldfinch, Willow Goldfinch, Brown Towhee, Lark Sparrow, ~~Ch~~ Song Sparrow, Black-capped Chickadee.

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Itinerary

May 31
cont'd.

Hd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

Broke camp 2 mi. S Hornbrook at 10 A.M. and drove to Yreka where we stocked up on groceries. Then drove back along Shasta River to The Klamath River Highway and W along the Klamath R. to Oak Knoll where we left the highway and drove up the road to The Dry Lake lookout. The road was blocked with snow so we got no farther than the above locality which is designated on some maps as Deer Camp. Camp was set up about 4 P.M.

Saw 7 or 8 deer along the road coming up. Caught 7 Hylas in the wet meadow under boards and logs.

Set 25 gov.-size mouse traps along the grassy banks of a small stream in Alders (Alnus tenuifolia) and along a rail fence near Incense Cedar and White Fir.

While setting traps saw many snow-plugs + fresh mounds of gophers.

June 1. Was awakened this morning by a partly grown Porcupine which was slowly climbing a big Red Fir under which I was sleeping.

In 25 gov.-size mouse traps caught 7 Peromyscus maniculatus, and 1 P. boylii. The maniculatus taken along the rail fence

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Itinerary

June 1
cont'd.

Hd. Doggett Cr., 5800 ft., Siskiyou Mts.

The boylii taken on a mossy stream bank.

Saw the following birds: Junco, Robin, Mountain Chickadee, Chipping Sparrow, White-headed Woodpecker (Digging nest cavity in a post near camp). Heard: Purple Finch, Steller Jay.

Saw several Eutamias amoenus, most of them on a rail fence near camp. There also saw a Sciurus douglasii run along the top rail of the fence.

In the evening set 17 traps along the stream in grassy spots beneath the alders. Caught 3 Hylas while setting traps.

June 2 In 17 gov.-size mouse traps caught: 1 Microtus californicus (?), 6 Peromyscus maniculatus. Hunted birds from 8-10 A.M. Shot 2 Red-breasted Nuthatches, 1 Lincoln Sparrow, 1 Wright Flycatcher. Saw: Robin, Junco, Purple Finch (sp?), Audubon Warbler, Mountain Chickadee, Black-headed Grosbeak.

In afternoon hunted birds from 4-5 in conifers (Red fir, White fir, Incense Cedar). Saw very few birds. Shot one California? Purple Finch, 1 Eutamias townsendii, 1 Eutamias townsendii amoenus. Saw several Callospermophilus in an opening on the hillside.

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Itinerary

June 2
cont'd.

Hd. Doggett Cr., 5800 ft., Siskiyou Mts.

surrounded by Red Cherry 8-12 ft. high.

In the evening set 1 steel trap near a large burrow. Also made 4 sets for gophers near camp in the meadow.

June 3 Caught 2 Thomomys monticola in 4 sets. Nothing in the steel trap. Left 2 gopher sets out. Shot a Eutamias amoenus. Saw several Sciurus douglasii in the fir trees. Saw 5 deer: 2 old does and 3 yearlings. One doe was followed by 2 which appeared to be twins. Saw a Red-tailed Hawk flying over. In the conifers saw several Western Tanager.

In late afternoon spent several hours hunting birds, most of the time stalking a Hermit Thrush singing in the fir trees. Shot 1 Eutamias amoenus in the brush and 1 Callospermophilus chrysodermus in an open flat surrounded by Red Cherry and Red Fir + White Fir. Saw a Porcupine in a small clump of Chinquapin. Saw a gopher working and set a trap. Caught 1 Thomomys monticola in this set in about 45 minutes.

June 4 Nothing in 2 gopher sets or the steel set. Hunted birds from 8-10 A.M. Heard Hermit Thrush again, but couldn't get a shot. Shot 1 Eutamias townsendii. Saw a Gerrhonotus.

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Itinerary

June 4
cont'd. Hd. Doggett Cr., 5800 ft., Siskiyou Mts.

Johnson reports mole workings near the creek. Made 2 mole sets, 1 in surface runway with mole trap and 1 in deep burrow with Macabee gopher traps. Looked around a good part of the meadow + forest floor near camp for mole workings. Found to be fairly common in damp forest floors where soil is loose and there are lots of muddles.

Made 1 mole set in such a situation. Made 4 sets for gophers in the meadow near camp.

June 5 Caught 1 Scapanus latimanus in 3 sets, 3 Thomomys monticola in 4 sets. Reset 2 mole traps in better runways. In afternoon made 1 set for Thomomys and when examined 1 hr. later the trap held 1 Thomomys monticola.

A new bird seen today is the Warbling Vireo.

In the evening set 20 traps with bacon bait along a small stream with grassy banks in Alders.

June 6. Caught 3 Peromyscus maniculatus and 1 juv. Microtus in 20 traps with bacon bait. Hunted from 9-11 A.M. in conifers. Shot 2 Eutamias amoenus in Red Cherry and Manzanita, 1 Eutamias townsendii about 20 ft. up in a dead fir tree, and 1 Sciurus douglasii as it ran along a log.

Dr. Grinnell, his wife, and son Dick arrived

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Itinerary

Hd. Doggett Cr., 5800 ft., Siskiyou Mts.

June 6^{cont'd.} about 3 P.M. and set up camp on the other side of the meadow.

Set 35 gov.-size mouse traps in the evening. 20 of these had bacon bait and 15 had bacon grease bait. All were set on grassy banks of small streams in the alders. Also have 1 steel trap, 3 mole traps, and 1 gopher set out.

June 7 In 35 gov.-size mouse traps caught: 2 Microtus californicus (?) and 1 Peromyscus maniculatus. Found the remains of a mole under a small fir tree.

At noon, went around line and found 1 young Microtus in the 35 mouse traps along stream in alders. Shot a Junco near camp.

In evening set another mole trap on a rather dry hillside. Put out 30 mouse traps with oat bait in a line running up a ridge about $\frac{1}{4}$ mi. SW camp. Traps were set around old logs and stumps in conifers. Saw a Fairy Woodpecker and found Aplodontia burrows in the alders. These latter were located by gnawed places on alder branches.

June 8. In 35 gov.-size mouse traps with bacon + bacon grease bait caught 3 Peromyscus maniculatus. In 30 mouse traps around

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Itinerary

June 8 Hd. Doggett Cr., 5800 ft., Siskiyou Co.
cont'd. old logs in the conifers caught 9 Peromyscus maniculatus on rolled out. Shot 1 Eutamias townsendii and 1 E. amoenus. Saw 1 Callospermophilus run down from the top of stump and saw a Sciurus douglasii in a red fir. Set 3 #1 steel traps in Aplodontia runways. Shot a Junco in a clump of small red firs.

In the evening went around traps and found 1 Clethrionomys mazama in a trap under a small red fir by a large rotten log. Set out 15 more gov.-size mouse traps by logs in conifers. Looked at traps on way back to camp and found another Clethrionomys mazama in the trap that held the first one.

Traps out tonight = 65 mouse, 4 steel, 4 mole, 1 gopher.

June 9 In 35 gov.-size mouse traps along grassy stream banks in alders caught 1 Microtus sp. In 43 mouse traps by logs in conifers caught 3 Clethrionomys mazama and 11 Peromyscus maniculatus. Shot a ♀ Sciurus douglasii from a branch about 8 ft. up in a small red fir and an Olive-sided Flycatcher from the top of a small white fir. Saw 2 Callospermophilus in a bare spot on the ridge. Saw 2 Deer.

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Itinerary

June 9 Nd. Doggett Cr., 5800ft., Siskiyou Mts.
cont'd. Caught nothing in 4 mole traps nor in 3
steel traps set for Aplodontia.

In the evening, went around trapline.
Found 2 Clethrionomys mazama and 1
Eutamias amoenus in 43 traps. Moved
1 mole trap.

June 10 In 35 ^{mouse} traps by stream in alders caught
1 Junco. In 43 gov.-size mouse traps
by logs in conifers caught 6 Peromyscus
maniculatus. Shot 1 Eutamias townsendii
in a jumble of dead branches under
a fir tree. Shot a Canada Jay from the
top of a 25 ft. red fir. Shot a Callospermophilus
from red cherry on an open hillside.
Caught nothing in 4 mole traps nor in 3 steel
set for Aplodontia. Moved 2 of the latter into
the burrows (had been set at burrow entrances
before).

Dr. Grinnell and his family left unexpectedly
this A.M. about 8 o'clock. ~~_____~~
~~_____~~

In the evening moved about 15 of the traps
by logs in conifers. Caught 2 Clethrionomys
mazama and 1 Eutamias amoenus in 43
gov.-size mouse traps.

June 11 In 35 traps on grassy stream banks in alders.

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June 11
cont'd. Id. Doggett Cr., 5800 ft., Siskiyou Mts.
caught nothing. In 43 traps by logs in
conifers caught 1 Clethrionomys mazama,
6 Peromyscus maniculatus and 1 Eutamias
amoenus. Mole traps caught nothing.
Steels for Aplodontia had 1 trap sprung.

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June 11 Beaver Cr., 1800 ft., 1/2 mi. N Klamath R., Siskiyou Co., Calif.
cont'd. Broke camp at Hd. Doggett Cr. about 1 P.M.

and drove down to the Klamath River Highway via Oak Knoll. Then drove to Klamath River P.O. for mail. There saw a Canyon Wren and heard several singing. Drove back to the mouth of Beaver Creek and up the creek about 1/2 mi. to the above locality which is that of the Beaver Creek Fish and Game Station where Mr. R.E. Tott is in charge. He very kindly allowed us to use one of his cabins and further obligated us by inviting us to dinner.

Caught a Gerrhonotus at the base of a Harry Oak about 4 P.M.

June 13 Donomoe Meadow, 5800 ft., 15 mi. W Kilt, Siskiyou Co., Calif.

Left Mr. Tott's at 6 A.M. June 12 and drove up Beaver Creek to Cinabar then via the Bear Grounds to the main ridge road which we followed to Donomoe Meadow. Total distance from mouth of Beaver Creek = 17 mi. Spent most of June 12 extricating the truck from a mudhole. Made camp about 5 P.M. Set 25 gov.-size mouse traps in alders along the grassy banks of a small stream. This A.M. These traps held 2 juv. Clethrionomys magama.

Birds seen today are: Robin, Stellar Jay, Junco, Lincoln Sparrow, Cassin Purple Finch, Warbling Vireo.

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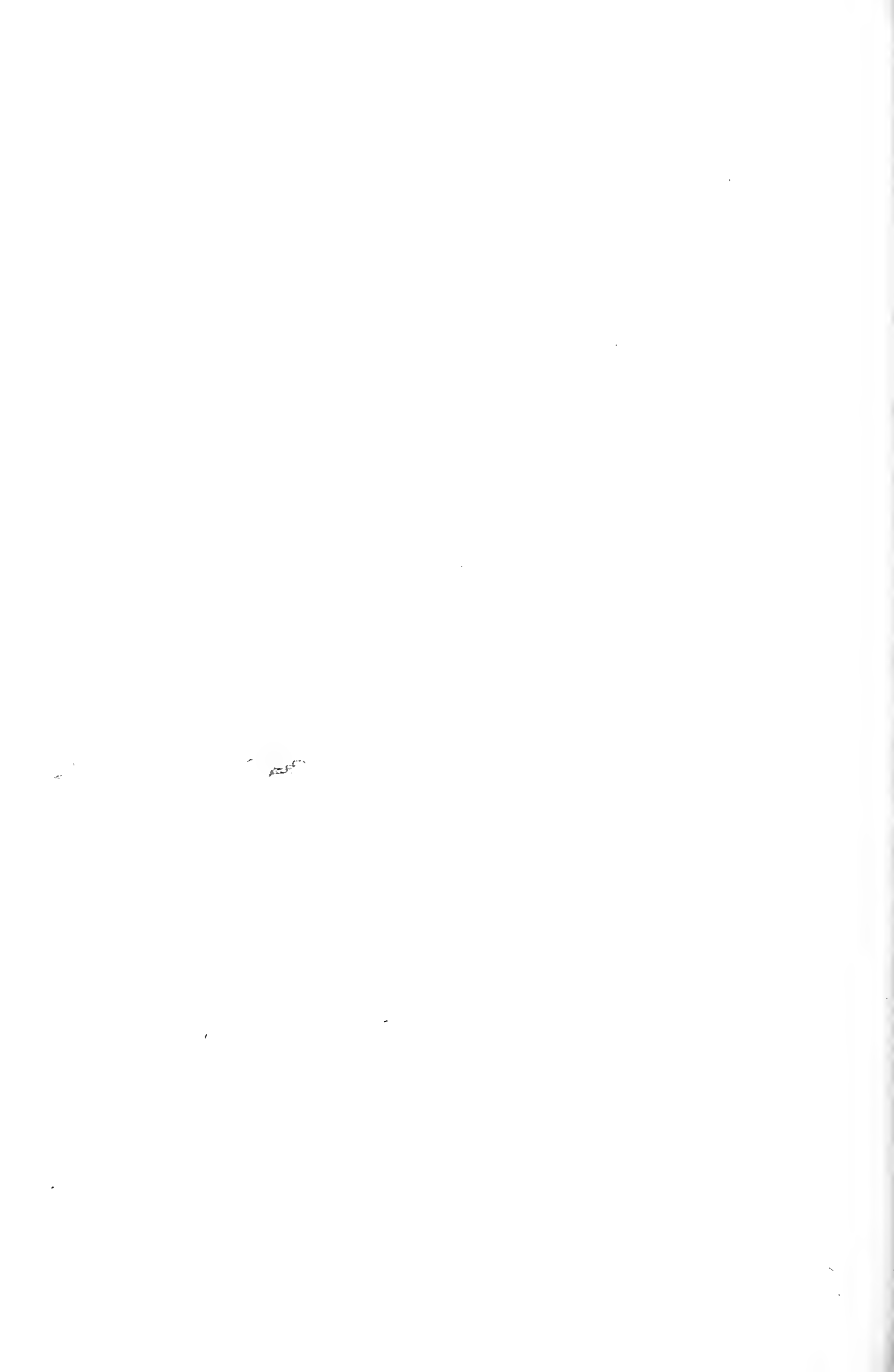
June 13
cont'd. Donomow Meadow, 5800 ft., 15 mi. W Kilt. (Cont'd.)
Several times heard Pileated Woodpecker,
Hermit Thrush, Mt. Quail.

In the evening set out 30 gov.-size mouse traps and 6 rat traps. The mouse traps were set by large logs in the conifers (Pinus monticola, Abies concolor, Abies magnifica, Pseudotsuga taxifolia). Set the 6 rat traps at the bases of large dead trees (standing) for Flying Squirrels. Set 4 sets of traps for gophers in the meadow.

June 14. In 25 gov.-size mouse traps in alders along a small stream, caught 1 Peromyscus maniculatus. In 30 gov.-size mouse traps by logs in conifers caught 1 Clethrionomys magama. In 4 gopher sets caught 2 Thomomys monticola.

New birds today: Chipping Sparrow, Western Tanager, Canada Jay (Call. by Johnson)

In the evening found 1 Eutamias amoenus in 25 gov.-size mouse traps in alders along a small stream. Took these traps up. Found 1 Clethrionomys magama in 30 traps by logs in the conifers. Set 41 gov.-size mouse traps in the meadow along Donomow Creek. About $\frac{2}{3}$ of these were set in tall grass and other small plants (Buttercups, Violets, Pepper-grass etc) out in the open. The rest were set under stunted Salix and Alnus tenuifolia with the same ground cover.



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June 14 Donomore Meadow, 5800 ft., 15 mi. W Tilt (cont'd.)
cont'd. Found mole surface runways on N slope at edge of meadow under Hemlock. Heard Sciurus douglasii several times and saw one cutting cones from Pinus monticola. Saw Eutamias townsendii at the edge of the conifers.

June 15. Heavy frost last night. In 41 traps in the meadow caught 1 Microtus mordax?, 1 Peromyscus maniculatus. In 30 traps by logs in conifers caught 2 Clethrionomys mazama. 7 rat traps for flying squirrels = 0. Set 1 mole trap in surface runway under Hemlocks on a N slope at edge of meadow.

Saw the following birds: Audubon Warbler, Junco, Cassin Purple Finch, Robin and Red-breasted Nuthatch. Heard Mountain quail and Warbling Vireo?

In the evening reset 10 of 30 gov.-size mouse traps in the conifers. Found 1 Clethrionomys mazama in this line. Also reset 10 of 41 traps in the meadow. These were set in a line running up over a small hill N of the old line in the meadow. Caught 1 Scapanus latimanus in the mole trap and reset the trap in a new set of runways under Red-fir near the cabin.

June 16 Rained off and on last night. Cold this A.M.
In 30 gov.-size mouse traps by logs in conifers

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June 16 Donomere Meadow, 5800 ft., 15 mi. N Tilt (Cont'd.)
cont'd. caught 7 Clethrionomys mazama, 1 Sorex
vagrans?, and 1 Peromyscus maniculatus. In 7
rat traps in conifers caught 1 Eutamias townsendii.
In 30 traps in the meadow caught 1 Zapus
pacificus. In 10 traps in low brush on hill N
of trapline in meadow caught 3 Peromyscus
maniculatus.

A bird not seen before is Williamson Sapsucker
which was seen in a Pinus monticola near camp.

In the evening found 2 Clethrionomys mazama
in 30 traps by logs in conifers.

June 17 In 30 ^{mouse} traps by logs in conifers, caught 1 Clethrio-
nomys. 7 rat traps in the same area caught
nothing. In 30 traps in the meadow, caught
1 Zapus pacificus and 1 Lincoln Sparrow. In 10
traps in brush on the hill, caught 1 Peromyscus
maniculatus. Mole trap sprung.

In the evening moved all 7 rat traps to new
situations but all still in conifers. Took 6 traps
from the 30 by logs in conifers. These added to
line of 30 in meadow along with 10 from the
hill so line in meadow = 46 traps.

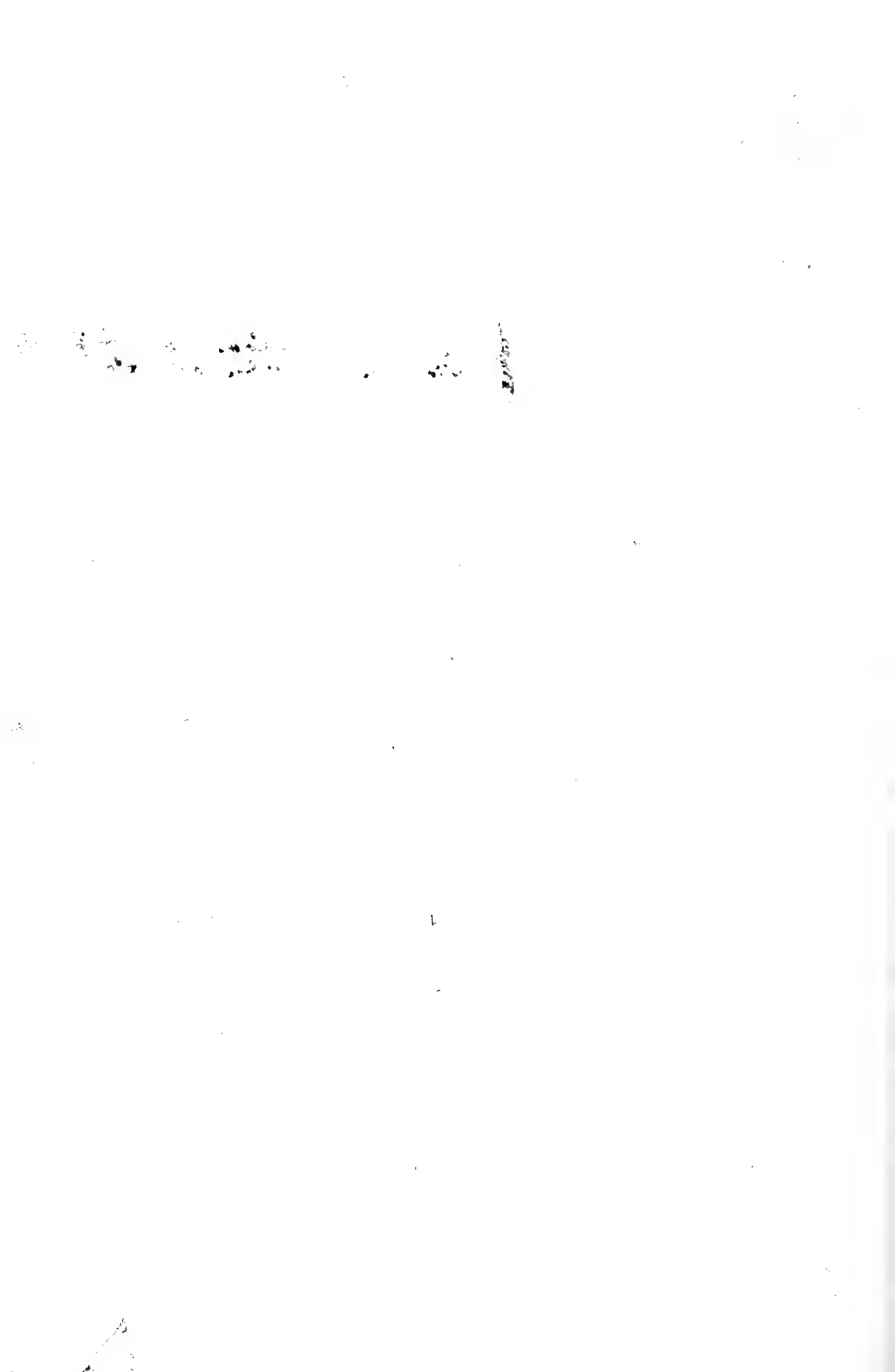
June 18 In 46 gov.-size mouse traps in the meadow,
caught 1 Zapus pacificus and 6 Peromyscus
maniculatus. Caught nothing in 24 gov.-size
mouse traps in conifers nor in 7 rat traps or the mole

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June 18 ^{cont'd.} Donomore Meadow, 5800 ft., Siskiyou Co., Calif. (Cont'd)
trap. Took in all traps and prepared to leave.

Donomore Meadow occupies an area of about 50 acres. It is somewhat rolling and is covered with lush grass and sedges; with nearly pure growth of tall sedges along the streams and grass and low annuals (Ranunculus sp., Pepper grass and yellow ^{farther back.} Viola). Along the stream at the lower end of the meadow are dwarf Salix and Alnus tenuifolia. The meadow is surrounded by a heavy coniferous forest with tongues of grass following up streams or seepages. The conifers are largely Red Fir and White Fir with some Douglas Fir and Pinus monticola with Taxus mertensiana at the lower edge of the steepest slopes. From the meadow, the ^{forested} hills slope up rather gradually on all sides. A conspicuous feature of the forest is the lack of undergrowth but with a ground cover of low grass and annuals like the upper edge of the meadow. On the dry E facing slope between the meadow & the forest are numerous low bushes of Amelanchier alnifolia and some Arctostaphylos patula with areas between covered by grass and low flowering plants - Blue larkspur, Calochortus caeruleus etc. Camp is at the edge of the meadow at its SE corner.



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June 18 Seiad Valley, 1400 ft., Siskiyou Co., Calif.
cont'd. Broke camp at Donomore Meadow at 11 A.M. and drove down via Bear Grounds, Cinnabar and Beaver Creek to the Klamath River and then down The Klamath via Oak Knoll, Horse Creek, and Hamburg to Seiad where we camped on the S side of the Klamath River about 5 P.M. Saw several Black-capped Chickadees in the alders by the river. Also saw Robin, Black-headed Grosbeak, Steller Jay, Long-tailed Chat. As we were eating supper, a Sharp-shinned Hawk flew heavily over camp carrying a young Steller Jay in its claws and followed by a screaming mob of jays.

June 19 This morning saw Coon and Woodrat tracks in the sand along the river. A skunk had walked thru camp and a mole had raised a ridge under the tent during the night.

Hunted birds. Shot a Black-capped Chickadee from a clump of Mountain Dogwood. Saw Lazuli Bunting, Robin, Black-headed Grosbeak, Steller Jay, Yellow Warbler, Long-tailed Chat, and Spotted Sandpiper. In the evening shot a Downy Woodpecker from a Harry Oak in camp.



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June 19 Seiad Valley, 1400 ft., Siskiyou Co., Calif. (cont'd.)
cont'd. Looked around for place to set mole traps but found no good fresh workings. Set 1 steel trap with shiny tin on the pan for coon and set 1 rat trap by a woodrat nest in the Alders and Willows by camp.

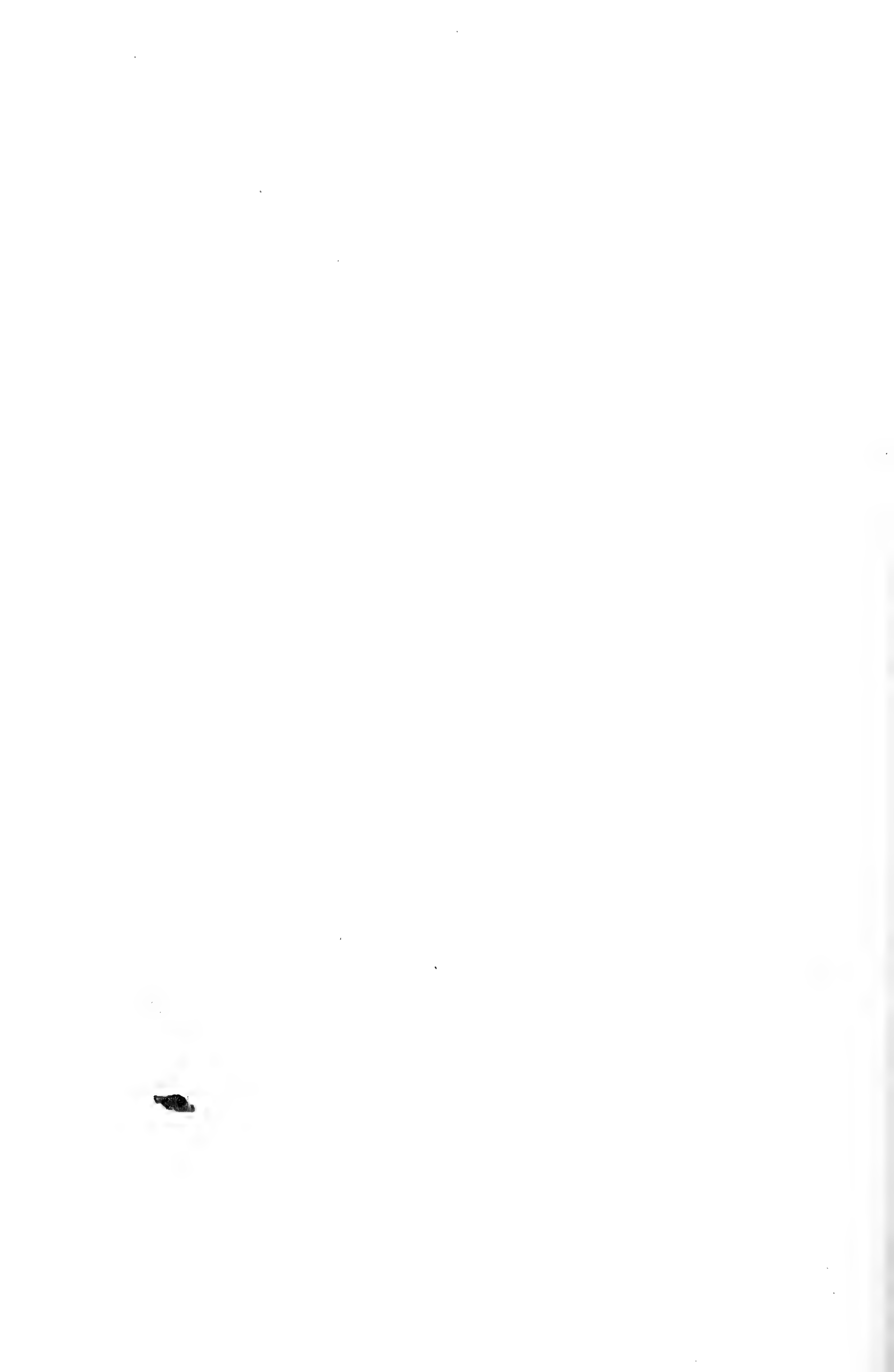
June 20 Caught 1 Neotoma fuscipes in a rat trap set by a nest near camp. Caught nothing in the coon trap.

Packed specimens to send to Berkeley.
In the afternoon, went across the river with Johnson to Seiad where we made 9 sets for gophers in an alfalfa field. Reset the coon trap on an island in the river where there were lots of coon tracks on a mud-bar and a number of mussels(?) had been opened.

June 21 In 9 gopher sets at Seiad (N side of Klamath R.) in an alfalfa field caught 7 Thomomys talpae. Caught nothing in coon trap.

In the afternoon drove 1 mi. down the river from camp to 2 small ponds. There shot a ♂ Redwing Blackbird in a willow. Saw several more in tules but they were out of range. Saw several Eastern Bullfrogs and great numbers of small toads, $\frac{1}{2}$ - $\frac{3}{4}$ in. long.

A description of camp and the



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June 21
cont'd. Seiad Valley, 1400 ft., Siskiyou Co., Calif., cont'd.
surroundings follows:

Camp is on the S side of the Klamath River about a mile below the bridge where the Highway crosses the river. The canyon wall here rises steeply from the river.

Along the river there is a fairly thick growth of alder, willow, Mountain Dogwood ^{and big-leaved maple} with a thick growth of underbrush - Blackberry vines, Amelanchier, and other low bushes. Above the river, the rather rocky canyon wall rises abruptly. It is covered with a thick growth of Madrone, Douglas Fir, Garry Oak, and Canyon Line Oak (Quercus chrysolepis), in some places with thick undergrowth largely Mountain Dogwood and Ferns (Woodwardia). The main part of the valley is on the N side of the river. Most of the valley is cultivated with fields of alfalfa, grain or pasture. The uncultivated part is largely covered with scrubby Garry Oak, small Yellow Pine and small Douglas Fir with a scattering of large Yellow Pines.

Clear Creek, 1400 ft., 3 mi. W Klamath River, Siskiyou Co., Calif.

June 22 Broke camp at Seiad at 9:45 A.M. and drove via the Klamath River Highway and Happy Camp to Clear Creek where we left the river and drove up Clear Creek about 6 mi. by road to the above

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June 22
cont'd. Clear Creek, 1400 ft., 3 mi. W Klamath R. (cont'd)
Camp was made about 100 yds. above Four Mile Creek which runs into Clear Creek from the N. Clear Creek is about 30 ft. across and fairly deep. Its banks are steep and rocky and the road runs along here about 100 ft. above the creek where there is a narrow shelf about 75 ft. wide. This shelf is continued on the far side of the creek and was apparently the old stream bed. The flat around camp is covered by dry grass and Hypericum perforatum near the road. A little back toward the creek, it is covered by a fairly thick growth of Garry Oak, small Douglas Fir, Madrone, Amelanchier, and Yellow Pines. The sides of the canyon are covered by a thick growth of Madrone, Douglas Fir, Garry Oak, Canyon Line Oak and Kellogg Oak. On the S side of the canyon there is mixed in with this Acer macrophyllum and Alders.

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Clear Creek, 1400 ft., 3 mi. W Klamath River, Siskiyou Co., Calif. (cont'd.)

June 24 In 7 rat traps set around an old cabin caught 2 Neotoma fuscipes. The cabin is in a grassy flat and is surrounded by large Garry Oaks, Madrone, Douglas Fir, Tan Oak and Cañon Line Oak. 10 mouse traps in the ^{dry} grass around the cabin caught nothing. Caught 1 Peromyscus maniculatus in 5 gov.-size mouse traps set in grass, Aralia californica and sword fern (Polystichum lonchitis) under Alder, Acer macrophyllum and Cornus nuttallii. In 35 gov.-size mouse traps along Four Mile Creek caught 1 Neurotrichus gibbsii on a steep mossy bank with a sparse growth of Boykinia elata and Fine finger fern (Adiantum pedatum) and overhung with Alder, Acer macrophyllum, Cornus nuttallii, Lithocarpus densiflorus and Quercus chrysolepis.

In the evening rebaited all 35 traps along Four Mile Creek with bacon and put out 15 more traps in that line. In the stream caught 2 salamanders and one Rana while rebaiting traps.

June 25 In 7 rat traps set around the old cabin, caught 1 juv. Neotoma fuscipes. Shot a Crotalus oregonus behind the cabin. Near camp shot 2 Penthestes rufescens. In 35 bacon-baited gov.-size

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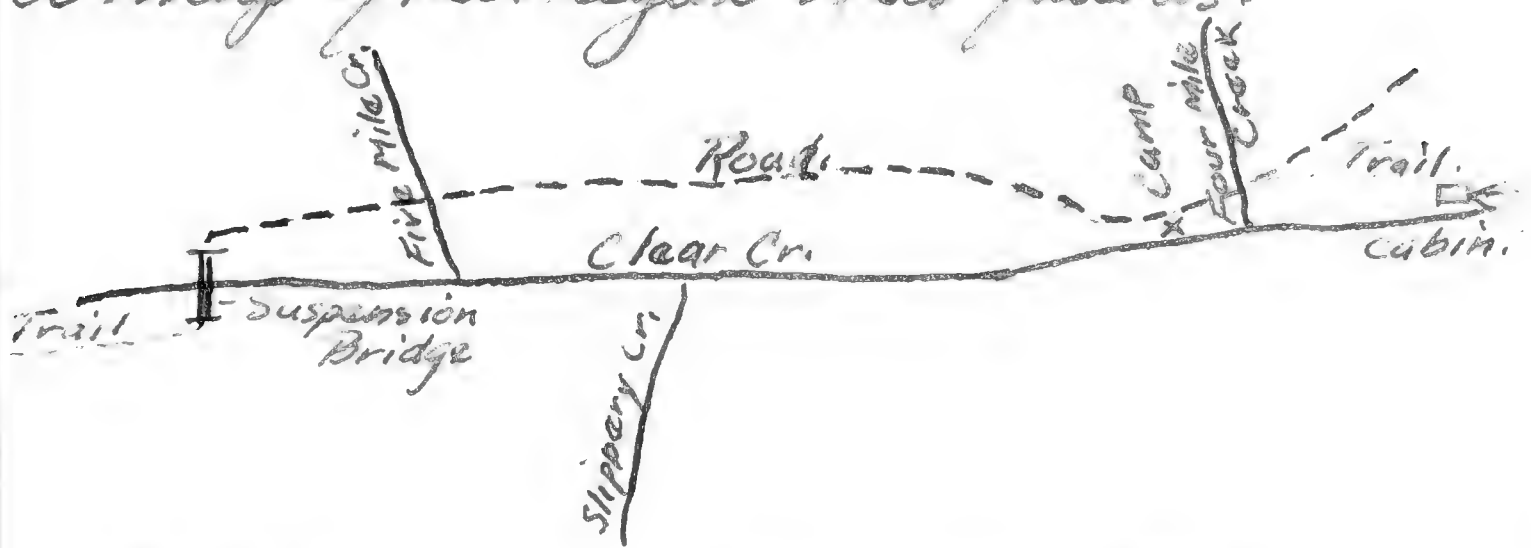
June 25
cont'd. Clear Creek, (1400 ft.) 3 mi. W Klamath River cont'd.
mouse traps caught nothing. In Four
Mile Creek caught 3 salamanders and
Rana. Birds seen around camp were
Black-headed Grosbeak, Western Tanager,
Stellar Jay, Warbling Vireo, Wood Pewee &
some species of Hummingbird.

In the afternoon, Johnson & I walked
up the road along the north bank of Clear
Creek past Five Mile Creek a short
distance and then crossed Clear Creek
on a high swinging bridge. Clear Creek
here is 30-35 ft. wide and quite deep.
Left the trail and traveled down the
S side of the creek through the brush
to Slippery Creek. Went up Slippery
Creek about 1/2 mile and spent about
2 hours during which we caught
several salamanders. Slippery Creek
is very much like Four Mile Creek in
appearance, type of vegetation etc.
Went on down from Slippery Creek
and found Clear Creek not far
below camp.

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June 25 Clear Creek, 1400 ft. (cont'd.)
cont'd. A map of this region is as follows.



This A.M. again saw 7 Mountain Quail and a flock of downy young.

In the P.M. set a line of 31 gov.-size mouse traps in the flat around camp, across Four Mile Creek and ^{up} the slope to the N. About 1/2 of the traps were in grass and Hypericum sp. at the edge of a rather thick growth of garry Oak, madrone, Amelanchier, and Douglas Fir. The other 1/2 of the line ran up a hillside thru' Garry Oak, Canyon Pine Oak, Kellogg Oak, Madrone & Douglas Fir. Added 15 traps to the Four Mile Creek line of traps.

June 26. 50 gov. size mouse traps on Four Mile Creek caught nothing. In 31 gov.-size mouse traps around camp & up the slope to the N. caught 4 Peromyscus truei. Took in all traps & prepared to move.

Klamath R., 1000 ft., mouth of Clear Creek, Siskiyou Co., Calif.

Broke camp at Clear Cr., 1400 ft. about 12 & arrived at above locality about 2. About 4 P.M. went back to look for better workings at Clear Creek Ranch but failed to find any.

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Klamath R., 1000 ft., mth. of Clear Creek (cont'd.)

June 26
cont'd.

A rancher here told us that there were lots of moles but that he had never seen gophers here and he had lived here 9 yrs.

Set 25 gov.-size mouse traps on the N side of Clear Creek around the edge of a recently cut hay field in tall grass (Bromus?), Hypericum, and Vicia and scrubby Harry Oak and Madrone. Caught a Lampropeltis zonata at the edge of the field. Returned to camp and set 13 gov.-size mouse traps in tangles of blackberries under willows, Douglas Firs and Madrone. Found surface workings of moles fairly common and set 2 mole traps.

June 27. In 25 gov.-size mouse traps around the edge of a cut hay field, caught 1 Peromyscus truei. In 13 gov.-size mouse traps in blackberry tangles near camp caught 1 Peromyscus truei. Nothing in mole traps. Set 2 more mole traps out by camp.

Examined mole traps about 2:45 P.M. and found 1 trap held a Scapanus latimanus.

In the late afternoon went with Johnson down the road (S.) about $1\frac{1}{2}$ mi. There stopped and went up a small creek, ^{Douglas Creek,} on the W side of the river. There caught a Rana boylei and a Salamander. The general appearance of the surroundings there

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Klamath R., 1000 ft., mth. of Clear Creek (cont'd.)
June 27 cont'd. were much like at camp so we set no traps.
Returned to camp.

Set ^{more} no traps this P.M. since we intend to move tomorrow. 4 mole traps still set.

The Klamath River here is about 200 ft. wide and quite muddy from placer mining. It flows thru a rather steep walled canyon, almost a gorge. Along the banks, wherever plants can gain a foothold are Willows, alders, and madrone with a rather heavy undergrowth of blackberry vines, grass and other low plants. The steep canyon sides are covered by a dense growth of Douglas Fir, Madrone, and Garry Oak. Along the small creek (as at Douglas Creek) there is a very thick cover of California Bay (Umbellularia californica).

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co., Calif.

June 28 Broke camp at mouth of Clear Creek about 12:30 and drove to Happy Camp where we bought groceries, gasoline and fixed a tire. About 4 P.M. left there and drove up Indian Creek. At a place where the road crosses a small tributary of Indian Creek, we stopped and I collected 3 Triturus torosus. This place, tho not on Indian Creek was designated as: Indian



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June 28 Poker Flat, 5000 ft., 12 mi. NW Happy Camp (cont'd.)
cont'd. Creek, 3400 ft., 12 mi. NW Happy Camp for lack of a better name. We arrived at Poker Flat about dark in a cold, drizzly rain and set up camp.

June 29 It rained all last night, and it is still cold and foggy. In the morning went out to look around the area near camp. Shot a Hairy Woodpecker and 3 Eutamias townsendii. Saw Juncos, Olive-sided Flycatcher, Red-breasted Nuthatches and Hairy Woodpeckers in conifers and Robins, Allen Hummingbirds and Lincoln Sparrows in the boggy meadow.

Camp is on a little knoll at the SE edge of grassy meadow, about 20 acres in area. It is very much like Donomore Meadow. The meadow is covered with tall grass and sedges and numerous annuals 2-10 inches high - buttercups, shooting stars, blue larkspur and yellow violets. At several places near the edge of the meadow are patches of willows 2 1/2 - 4 ft. high ~~about~~. Practically the whole meadow is wet and boggy with numerous small streams and springy spots. The main stream which drains the meadow runs out eastward just N of our camp in a narrow canyon. Around the edge of

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June 29
cont'd.

Itinerary

Poker Flat, 5000 ft. (cont'd.)

The meadow is a narrow bare strip of dry, gravelly ground about 10-25 yds. wide. Joining this is a heavy coniferous forest of Douglas Fir, Red Fir, White Fir and in a few places Incense Cedar and Pinus monticola. However, this differs from Donomoe Meadow in having a heavy cover of underbrush. This is made up largely of Quercus sadleriana, with scattered bushes of Arctostaphylos patula, Ribes sanguineum, Ribes viscosissimum, Ribes marshallii (?), Ribes menziesii and Sorbus sitchensis. Along streams and in the gulches is a dense growth of shrubs and low annuals.

June 30 Cold and foggy. Went out from camp and hunted down the trail toward Kelly Lake. Birds and mammals very few. Saw: Olive-sided Flycatcher, Stellar Jay, Red-breasted Nuthatch, Junco, Allen Hummingbird. Heard chipmunks and Chickaree. Trees thin out as one goes down hill here and the brush becomes thicker. Arctostaphylos patula and Quercus sadleriana are the most noticeable plants. Also found Red Cherry common on the ridges. Where there are openings in the brush, the ground is covered by a small prostrate manzanita (Arctostaphylos nevadensis (?)).



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June 30
cont'd. Poker Flat, 5000 ft., (cont'd.)
Worked back down ^{a small} ~~the~~ stream. Plants along here form a dense growth, largely made up of Cornus californicus and Acer glabrum with Ribes sanguineum. Underneath these is a dense ground cover of Ribes lacustre, Ribes menziesii and Ribes marshallii. In the gulches which apparently have streams at some time of year found more low plants and fewer large shrubs. Here found Fritellaria pudica, Ficellium, Lappula floribunda, Aquilegia formosa, Smilacina amplexicaulis, Vicia americana and low bushes of Lonicera conjugialis.

In the evening put out a line of 25 gov.-size mouse traps around the edge of the willows in the meadow near camp.

July 1
1935. In 25 gov.-size mouse traps caught 3 Microtus mordax (?) and 4 Peromyscus maniculatus. Traps set in tall grass, sedges, buttercups and shooting stars at edge of willow clumps in boggy meadow.

In the evening this line held 1 Microtus mordax. Set another line of 18 gov.-size mouse traps and 2 rat traps through conifers. Most of traps set by logs in dense stands of



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July 1 Poker Flat, 5000 ft., (cont'd.)
cont'd. Douglas Fir, Red Fir and White Fir. Found
fresh mole working in bare area at edge
of meadow. Set 1 mole trap there.

July 2 In 25 gov. size mouse traps in the wet meadow,
caught 3 Peromyscus maniculatus. In 18
mouse traps by logs in thick coniferous forest
caught 6 Peromyscus maniculatus and 1
Clethrionomys rizarum

About 9 A.M. left camp with Johnson and
went up the ridge to the W. of the meadow.
The Del Norte-Siskiyou Co. line runs along
the top of this ridge. Just as we were leaving
Poker Flat, shot a ♀ Dusky Grouse from the
lower branches of a big Douglas Fir. On the
way up the ridge saw several Hermit
Thrushes in mixed small Douglas Fir
and Saddle Oak. At an elevation of 5400
ft. we found several large trees of Picea
breweriana growing on the rocky ridge.
The highest part of this ridge here is
about 5600 ft. ~~from~~ From here we had a
good view of the surrounding country.
To the S. about 5 or 6 miles are several
large peaks - among them Preston Peak.
These are practically bare rock with
a small fringe of timber on the lower

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Itinerary

Poker Flat, 5000 ft., (cont'd.)

July 2
cont'd.

slopes. It is possible that the higher parts of some of these peaks might be Hudsonian zone. The top of the ridge is largely covered with chaparral - Arctostaphylos patula, Ceanothus velutina, Amelanchier alnifolia and Prunus emarginata, with a few small trees of Red Fir and Incense Cedar.

Here I shot 3 Passerella iliaca and 1 Eutamias amoenus. Also saw Green-tailed Towhee, Lazuli Bunting, Mountain(?) Chickadee, and Western Tanager and Allen Hummingbird.

Returned to camp about noon. On the way down, saw Citellus douglasii, Eutamias townsendii and heard Sciurus douglasii.

The locality from which I got Fox Sparrows and Eutamias amoenus designated as: Del Norte-Siskiyou Co. line, 5600 ft., 5 3/4 mi. S Oregon line, Calif.

In the evening found 1 Clethrionomys mazama in 18 traps by logs in conifers. Added 10 traps to this line. Both mole traps sprung but only caught 1 Scapanus latimanus. Put out 1 set for gophers.

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Itinerary

July 2 Poker Flat, 5000 ft., (cont'd.)

cont'd. While setting traps in the meadow, I saw a Zapus about 8 P.M.

July 3 In 25 gov. size mouse traps in the meadow caught 5 Peromyscus maniculatus and 2 Microtus mordax. In 28 gov. size mouse traps by logs in thick forest, caught 3 Peromyscus maniculatus and 3 Clethrionomys ragnae. Took in 3 mouse traps in this line and added 2 rat traps, resetting most of the line which still runs thru the same association as before. In the 1 mole trap caught 1 Scapanus latimanus. Gopher set undisturbed.

About 10 A.M. Heard a woodpecker pounding on a dead tree by camp. Shot it and it turned out to be a ♀ Picoides arcticus.

In the evening reset a line in the wet meadow so it runs N from about camp to the main stream that drains the meadow. Traps set especially for Zapus in tall sedges, buttercups, shooting stars generally under or near small willows.

July 4 In 25 mouse traps and 2 rat traps by logs in coniferous forest caught 2 Clethrionomys ragnae and 3 Peromyscus maniculatus. Caught 1 gopher in 1 set.

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July 4 Poker Flat, 5000 ft., (cont'd.)
cont'd.

Took in line of 25 mouse traps and 2 rat traps from the conifers.

In the afternoon made 6 gopher sets (8 traps) at the edge of the meadow in rather dry ground. Caught 1 Thomomys monticola in 1st trap set. Made 3 sets with mole traps in surface ridges. Added 28 traps to line in meadow so now have 53 gov. size mouse traps in this line. Extended it down the main stream flowing out of the meadow. The canyon thru which it flows is narrow - about 10 - 20 ft. wide at the bottom with willows on either side 2-5 ft. high. Under the willows are sedges and small annuals and some grass. Soil here is gravelly.

July 5 In 53 gov. size mouse traps in the meadow and down the stream flowing out of it, caught 1 Zapus pacificus, 1 Sorex palustris, 2 Microtus mordax and 12 Peromyscus maniculatus. In 5 gopher sets, caught 2 Thomomys monticola. Left 3 gopher sets out. Mole traps = 0.

In the evening found 1 Thomomys monticola in 3 sets. Reset this trap. Added 15 ^{mouse} traps to the line in the meadow. These

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Itinerary

July 5 Pakee Flat, 5000 ft., (cont'd.)
cont'd. run up the main stream all in tall
sedges on the mud near the stream.

July 6 In 68 gov.-size mouse traps in the
meadow and along the stream, caught
3 Microtus mordax and 13 Peromyscus
maniculatus. In 3 gopher sets caught 1
Thomomys monticola. Took in gopher traps.
Johnson went down to Happy Camp today
so I skinned 2 Aplodontias he caught
this morning.

In the evening set 2 rat traps for flying
squirrels in the heavy timber near camp.
July 7 In 68 ^{mouse} traps in the meadow, caught 1
Sorex palustris, 5 Microtus mordax and 8
Peromyscus maniculatus. Went on downstream
to the third creek and up that about 1/2 mi.
looking for aplodontia burrows. Found 1
rather old burrow in alder, Alnus glabrum
and Cornus californicus at the head of
the creek. Saw a Water Ouzel by the stream
and several Thrushes. Back at camp, shot
a ♂ Picoides arcticus from the same dead
fir tree where I shot a ♀ a few days ago.
In the afternoon shot a Dryobates villosus,
one of a pair from a Douglas Fir in mixed
Red Fir, White Fir and Douglas Fir near camp.

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Itinerary.

July 8
1935 Poker Flat, 5000 ft., (cont'd.)

This morning 68 traps in the meadow held
1 Sorex bendirii, 1 Sorex palustris, 2 Zapus
pacificus, 5 Microtus mordax, 6 Peromyscus
maniculatus.

In the afternoon went up the ridge to the
top of camp & hunt for sparrows but saw
none. Shot 1 Eutamias amoenus, 1 Eutamias
townsendii, 1 Sciurus douglasii, and 1
Selasphorus rufus. Saw Douglas Ground
squirrel in a bush but couldn't get a good
shot. Heard a commotion among the birds -
Chickadees, Calaveras Warbler (?), Hermit
Warbler and Red-breasted Nuthatch. An invest-
igation scared out a Pigmy Owl from the
lower branches of a dead fir tree. It flew
off thru a dense thicket of young fir trees
and I couldn't get a shot.

Other birds seen: On the ridge - Hermit
Thrush and Juncos; In fir trees - White-headed
Woodpecker, Audubon Warbler, Dusky Grouse
(♀ and 3 juv.), Steller Jay, Pine Siskin, and
Western Tanager; In the wet meadow - Allen
Hummingbird, Lincoln Sparrow, and Robin.

One Allen Hummer was watched for
several minutes catching insects on the
wing. The insects were apparently small

Itinerary

Palmer
1935

July 8
cont'd.

Poker Flat, 5000 ft., (Cont'd.)

dipterous insects probably mosquitoes hovering over a boggy spot at the edge of the meadow. (about 6 P.M.)

In the evening, found 1 Microtus mordax and 1 Sorex palustris in 67 gov.-size mouse traps in the wet meadow. Added 8 traps to this line so it now has 75 traps.

July 9.

In 75 ^{gov.-size mouse} traps in the meadow caught 1 Sorex ^{palustris} benderii, 3 Zapus pacificus, 2 Microtus mordax, 1 Clethrionomys ragnae and 8 Peromyscus maniculatus.

Took in all traps and prepared to move.

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Itinerary

E. Fork Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co., Calif.

July 10 ^{July 9} Broke camp at Poker Flat about 4:30 P.M. ^{P.M.}
The way out shot a Junco in a clump of Douglas Fir. Then drove back to the Happy Camp to Redwood Highway road and there stopped and shot at a Callospermophilus but failed to get it. Continued on the main road over the summit of the Siskiyou Mts. At a point 1 mi. NW Little Grayback, 5400 ft., Siskiyou Mts., Del Norte Co., Calif. shot a ♀ Callospermophilus. Continued on into Oregon to Takilma and thence S in the Illinois River Valley to the above locality where we camped on the property of Mr. Allen about 6 P.M.

July 11 Camp is in a flat about 100 yds. across running up the N side of Dunn Creek just above where it joins the East Fork of the Illinois R. The Oregon line is a short way north of camp, cutting across the lower end of the flat. Mr. Allen has cleared the flat for about 300 yds. with the exception of a small group of Garry Oak and Kellogg Oak in which we are camped. About half of this open area is planted to vegetable garden. The rest is covered by dry grass. The hills to the NE of camp slope up rather gradually and are covered by Garry Oak, Kellogg Oak, Madrone, Douglas

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Itinerary

July 11
cont'd.

E. Fk. Illinois R., 1900 ft., (cont'd.)

Fir with Garry Oak predominating and a few scattered large Yellow Pines. The streams (E. Fk. Illinois R. and Dunn Cr.) are about 20-25 ft. across, rather shallow and fairly slow flowing with bottoms covered with large boulders. The banks are overhung with Western Azalea, Willow, Alder, Vine Maple (Acer circinatum), Acer macrophyllum, Madrone, Yew and Corylus rostrata. The N facing slopes have a marked difference in vegetation. A thick forest of large Douglas Fir with scattered large Yellow Pines and a few large Sugar Pines covers the hill sides.

An understory of Yew, Jan Oak, and Mountain Dogwood. The ground surface is covered by low shrubs - ^{Berberis} ~~Maackia~~ aquifolium, Chimaphila umbellata and Vaccinium ovatum.

A heavy covering of moss hides all rocks, sticks and most of the ground.

This morning set 2 mole traps in the garden. Then went with Johnson to the S side of the creek where he had seen Phenacomys nests in the Douglas Fir. All the nests we could reach by climbing were unoccupied. Saved a nest and feces from another nest.

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Itinerary

E. Fk. Illinois R., 1900 ft., (cont'd.)
July 11
(cont'd.) In the afternoon, Johnson and I went up the E. Fk. of the Illinois River about $\frac{1}{2}$ mi. Johnson shot a juv. Junco from an alder by the stream. Also heard many Hermit Thrushes and Chestnut backed Chickadees. Saw several Robins. Birds are not very abundant here. On the way back to camp caught a Rana boylei on a large boulder in the stream.

About 7:30 bats started to fly. Shot a Myotis around a shed ^{at the edge of} in the flat. Also saw a number of larger bats?

Have a line of 20 gov.-size mouse traps out tonight. These all set in Microtus runways in grass at the edge of the garden or in a patch of Melilotus. Also set 2 more mole traps, ^{and 2 modified Macabre traps} in runways in the garden.

July 12 In 20 gov.-size mouse traps caught nothing. 5 mole sets caught nothing.

Went in to Takilma, Oregon for mail and supplies. On the way back just over the line in California, saw a Sciurus griseus.

Set a line of 28 gov.-size mouse traps ^{+ 4 rat traps} on the W side of the E. Fk. Illinois R. The line runs a short way thru mixed Garry Oak, Madrone, Douglas Fir, Yellow Pine, Sugar Pine and Incense

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1935

Itinerary

July 12 E. Fk., Illinois R., 1900 ft., (cont'd.)
(cont'd.) Cedar. The rest of the line (about 20 traps) run up a N facing hillside in large Douglas Firs with a few Yellow Pine, Sugar Pine, and Tan Oak under bushes of Oregon Grape, Huckleberries, ~~etc~~ and Mountain Dogwood on mossy ground surface.
Shot a Hermit Thrush ~~for~~ as it was running along a large Yellow Pine log in mixed Madrone, Harry Oak, and Douglas Fir (small). Here also heard a Eutamias. Caught a mole in the garden.
About 7:30 P.M. bats started to fly. Shot a Lasiurus noctivagus and a Myotis near the edge of the clearing.

July 13 In 28 gov. size mouse traps and 4 rat traps in the heavy Douglas Fir forest, caught 3 Peromyscus maniculatus. Shot a Eutamias townsendii there. In 30 traps in Microtus runways in grass and Melilotus around the garden, caught 1 Microtus californicus. 5 mole sets caught nothing.

Saw a number of deer tracks in the road. Saw Lazuli Bunting, Sooty Hoose (2 young), Western Tanager, Stellar Jay, and Linnet. Heard Hermit Thrush, Black-headed Grosbeak, and Belted Kingfisher.

Today we had a visit from Mr. A. L. Hobart

Shot Cassin Vireo and Telling Woodpecker in mixed Harry & Kellogg Oaks at camp.



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Itinerary

July 13 E. Fk. Illinois R., 1900 ft. (cont'd.)

(cont'd.) who has a mining claim about $\frac{1}{2}$ mi. above here. He is interested in "Biology" and seems to know the mammals and birds fairly well. I think his information quite reliable. He has trapped for furs for several years. He says black bears are common (2 color phases). Spotted skunks also common. Last winter he caught Wildcat and Coyote. He has never caught any mink or Ring-tailed cats but says other trappers get a few. He says Jackrabbits are common but has seen only a few Brush rabbits. Says Digger Squirrels and Woodrats are common.

At dusk shot bats at the edge of the clearing. Shot 1 Eptesicus fuscus and 2 Myotis. There were fewer bats flying than the night before and they were flying lower. This is probably due to the clouds which cover the sky. However, it is warm and rather sultry.

July 14 This morning found nothing in 28 gopher-size mouse traps and 4 rat traps. Took the line up. In 20 traps in Microtus runways in grass and Melilotus caught 1 Microtus californicus. Caught nothing in 4 mole traps. Shot a 1 Certhia familiaris from a Garry Oak.

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1935

Itinerary

July 14 E. Fk. Illinois R., 1900 ft., (cont'd.)

cont'd. In the evening reset a line of 28 mouse traps and 1 rat trap up the E. Fk. Illinois R. Traps set mostly on sandy bars or by mossy banks at the edge of the stream under Alder, Acer macrophyllum, A. circinatum, Yew, Rhododendron occidentale, Cornus nuttalli, Amelanchier alnifolia, Madrone and Willows. Caught a small Thamnophis ordinoides at the edge of the stream on a log. When pursued, it headed for the water.

Shot bats in the evening. Altho cloudy and starting to rain, bats started to fly about the same time as on previous nights here. (7:30 P.M.). It is darker tonight and it is possible that bats fly more according to the time than light intensity. Shot 1 Eptesicus fuscus. About 8:15, rain ^{increased} ~~got~~ and bats ceased flying.

July 15 This A.M. in 28 gov.-size mouse traps and 1 rat trap in a line up the E. Fk. Illinois R. Caught 5 Peromyscus maniculatus. 20 gov.-size mouse traps in Microtus runways in grassy places at the edge of the garden caught nothing. 4 mole traps caught nothing.

From 1-3 P.M., hunted up the road along Dunn Creek for about a mile. Shot 3 Juncos

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Itinerary

E. Fk. Illinois R., 1900 ft., (cont'd.)

July 15
cont'd.

in a pure stand of small Douglas Fir. Shot a half grown Citellus douglasii in a rock pile by the creek. It was quite hot and birds were not conspicuous. Saw: Robin, Lazuli Bunting, Chestnut-backed Chickadee and Western Tanager.

Shot at bats in the evening, but got none. Bats were much fewer than last night altho it was raining last night and is clear and warm tonight. Saw only 5 bats from 7:35 - 9 P.M.

July 16. In 28 gov.-size mouse traps and 1 rat trap in a line up E. Fk. Illinois R. caught 1 Clethrionomys ragnama and 4 Peromyscus maniculatus. 20 gov.-size mouse traps in 7 Microtus runways caught nothing. 4 mole traps caught nothing. Took in all traps to more today.

Saw ♀ Dusky House and 2 young eating raspberries in the garden. She is a pet of the family and, according to Mr. Allen, has been around for several years. Mr. Allen and Mr. A.L. Hobart, who was here again this A.M., both say there are Ruffed Grouse here. Heard Mourning Dove, Chickadee and Black-headed Grosbeak. Saw Hermit Thrush.

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Itinerary

July 16
cont'd. Rowdy Cr., 1 1/2 mi. E Smith River, Del Norte Co., Calif.

Broke camp on E. Fk. Illinois R. about 2:30 P.M. and drove via Takilma and Waldo (Oregon) to The Redwood Highway and via that to Crescent City. There we turned N. and followed the coast Highway to the town of Smith River and then E to the above locality.

The Redwood Highway follows Smith River from its head down to about 8 mi. from Crescent City. The plant association along the creek was much like that at E. Fk. Illinois R. with more Madrone. We watched for the first Redwood as we approached the coast. The first seen were a small clump of rather small trees about 2 mi. of a place marked Bertilida on our map, or about halfway between Myrtle Creek and Handscrabble Creek. From there on in to Crescent City we passed thru several typical groves of large Redwoods. A great deal of the country between Crescent City and Smith River (town) has been logged off and is now small second growth or snags and stumps.

Camp here is in typical Redwood association. Rowdy Creek is about 25 ft. wide, rather shallow and slow flowing. Its banks

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Itinerary

July 16 Rosdy Cr., 1 1/2 mi. E Smith River (cont'd.)
cont'd.

are covered by alders under which is a ground cover of grass extending back as little meadows. We found a great number of mole workings but the ground is so rocky beneath the grass roots that I couldn't set any traps.

About 8 P.M. shot a Myotis that was flying low over the creek at the edge of the alders. Saw only 1 other bat.

July 17 This morning shot a Atellus douglasii at the mouth of its burrow in a steep bank. Heard a chipmunk in a blackberry thicket.

Saw Kingfisher, Great-blue Heron and Water Ouzel along the creek. There are many Song Sparrows here, mostly in blackberry thickets, brake fern and Corylus at the edge of a small hay field. Saw Band-tailed pigeon in Douglas Fir on the hill.

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Itinerary

7 mi. ENE Smith River, 1800 ft., Del Norte Co. Calif.

July 19 Left our overnight camp on Rowdy Creek in the morning and drove E to Low Divide which is an abandoned mining town. Then drove N along a ridge past Stone Corral, Wimer Spring and Hole in the Ground to a place where we camped as above (about $\frac{1}{2}$ mi. beyond Hole in the Ground).

Camp is on a ridge beside the road. This ridge is the divide between Rowdy Creek on the W and the West Fork of Smith River on the E. Around camp, running down both sides of the ridge, is a fairly dense forest of Douglas Fir, all rather large trees. Beneath the trees, is a dense brushy undergrowth made up of tan oak, azalea and Rhododendron. Under this is a thick cover of salal (Gaultheria shallon) and bunch grass (?). Farther back along the ridge, the ^{Douglas Fir} trees thin out and finally disappear and the ridge is covered by brush, very dense, and 4 to 10 ft. high. This is largely small Tan Oak, manzanita, Quercus dumosa, Holodiscus discolor (?) and Knob-cone Pine.

In the evening, set 35 gopher-size mouse traps in a line running down the hillside to the E in the Douglas Firs. Traps were largely set in thick salal and bunch grass under Tan Oak, Azalea, Rhododendron and Manzanita.

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Itinerary

July 18 ¹⁸ 7 mi. ENE Smith River, 1800 ft., (cont'd.)
cont'd. Also set 4 rat traps at bases of large Douglas Firs for Flying Squirrels.

Birds heard or seen around camp today:
Spotted Towhee, Hermit Thrush, Red-breasted Nuthatch, Wren-tit, Steller Jay.

July 18 ¹⁸ In 35 gov. size mouse traps this A.M. found 5 Peromyscus maniculatus. 4 rat traps caught nothing. Shot a Junco from a bush under the Douglas Firs. Scared out a pair of Band-tailed Pigeons from a tall Douglas Fir. Also saw Hermit Thrush and Steller Jay. Heard Wren-tit, Spotted Towhee, Red-breasted Nuthatch, Chestnut-backed Chickadee.

July 19 Heavy fog came in last night. Trees drip steadily. In 35 gov.-size mouse traps caught 3 Peromyscus maniculatus. 4 rat traps caught nothing. Look in traps intending to ^{there} move ~~few~~ birds out this morning. Junco, Hermit Thrush and Wren-tits.

In the afternoon went down the road (S) about 3/4 mi. to the Aplodontia workings Johnson found. There made 5 sets with #1 steel traps in Aplodontia burrows. Most of these are in salal (Gaultheria shallon) mixed with small Lithocarpus densiflorus with a few large Sandaks and Madrone.

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1935

Itinerary

July 19
cont'd.

7 mi. ENE Smith River, 1800 ft., (cont'd.)

About $\frac{1}{2}$ mi. below camp in the brush along the ridge, shot 2 Wren-tits and collected a Thamnophis sirtalis. I have never seen this snake so far from water before. The ridge where it was taken is quite dry and covered with dense brush.

At 4 P.M. drove down the road to Wimer Spring. This is at the edge of the Douglas Fir. The country is rather open and dry and rocky. There are a few scattered small yellow pine and knob-cone pine, the latter much commoner than the other and generally more scrubby (6-10 ft. high). A good part of the ground is covered by dry bunch grass with scattered bushes of Quercus dumosa, Lithocarpus densiflorus, Manganita, ~~and~~ Vaccinium?, and Holodiscus discolor(?).

Shot a Eutamias townsendii from a low Manganita at the edge of the Douglas Firs. Heard Junco, Hermit Thrush, Spotted Towhee and Wren-tit but couldn't see any of them in the thick fog.

Set a line of traps (39 gov.-size mouse and 4 rat) in a line running down an old road. The bed of the road where not rocky is very bright red clay. Traps mostly on red soil or in rocks at the edge of the road by small

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Itinerary

July 19
cont'd.

1 mi. ENE Smith River, 1800 ft., (cont'd.)

bushes of Scrub Oak, ~~or~~ Tan Oak, or manzanita or under scrubby Knob-cone Pines.

On the way back to camp saw a Hairy Woodpecker on a Douglas Fir by the road.

July 20 Wimer Spring, 1800 ft., 1 mi. E Smith River, Del Norte Co., Calif.

In 39 gov. -size mouse traps and 4 rat traps caught 8 Peromyscus maniculatus and 6 Peromyscus truei. Saw a Brush Rabbit in a dense low clump of scrub oak near the spring but couldn't get a shot. Shot a Hermit Thrush from a small pine tree near the spring. Heard Juncos and Spotted Towhees.

Returned to camp and examined the 5 steel traps in Aplodontia runways but they were undisturbed.

In the evening went down with Johnson to the Hole in the Ground. The trail leaves the road about $\frac{1}{2}$ mi. S of our camp and the trail down is about $\frac{1}{4}$ mi. Hole in the Ground is a small level meadow about 75-150 ft. in the canyon bottom. A small stream (tributary to W. Fork Smith River) flows along the E border of the meadow. Grass in the meadow is about half green and half dry. A rather dense growth of trees and chaparral surrounds

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July 20
cont'd.

Itinerary

7 mi. ENE Smith River, 1800 ft. (cont'd.)

The grassy flat, with tongues of meadow running back into the brush and trees.

Around the Wedge are Douglas Fir, Tan Oak, Quercus dumosa, Rhododendron occidentale, Madrone, California Bay. Along the stream on the E side is a dense thicket of Rubus vitifolius, R. spectabilis, California Bay and Alder. Near the stream about the middle of the flat is a small abandoned cabin.

Set a line of 28 gov.-size mouse traps around the W. edge of the meadow. Found several mole workings and set 2 traps. Heard Song Sparrows and Spotted Towhees. Saw Hermit Thrushes, Wren-tits, Chestnut-backed Chickadees and Nighthawks.

At camp saw several small bats flying swiftly at the edge of heavy Douglas Fir forest from 8:00-8:45 P.M.

July 21 This morning found 2 Aplodontia rufa in 5 #1 steel traps.

Hole in the Ground, 1200 ft., 7 1/2 mi. ENE Smith River, Del Norte Co., Calif.

In 28 gov.-size mouse traps set around the W side caught 12 Peromyscus maniculatus. 2 mole traps caught nothing. Saw a

Palmer
1935

Itinerary

July 21 Hole in the Ground, 1200 ft. cont'd.

cont'd. Brush Rabbit run from the meadow into the brush. Heard a Chickadee and following it up found 2 chasing each other around in the tops of Jan Oak and Douglas Fir. Shot both Chickadees. Returned to camp.

In the chaparral, on the way up, heard several Spotted Towhees, Wrentits and Chickadees. Saw Hermit Thrush, and Hermit Warbler and Steller Jay.

Johnson went down to Wimer Spring this afternoon and returned with a Spotted Towhee.

In the evening went down to Hole in the Ground. Traps had caught 1 juv. Spotted Towhee during the day. Trapping has been poor here and we have decided to move tomorrow so look in all traps. We stayed til dark, hoping to get some bat shooting but it started to rain rather steadily but lightly and the few bats seen were traveling low and fast. Several Night Hawks were flying around the "Hole" and apparently started flying earlier than the bats and paid less attention to the rain. Returned to camp about 9 P.M.

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1935

Itinerary

July 22 8 mi. E Crescent City, Del Norte Co., Calif.
Broke camp this morning 7 mi. ENE
Smith River about 9 A.M. On the way out took
in the 4 steel traps set for Aplodontia. They
were undisturbed. Drove down to Low Divide
where Johnson and I each shot a Calif.
Jay. They were in low pine trees (Pinus
rigida, P. attenuata, P. monticola) on a
rather bare rocky ridge. Here also saw
Spotted Towhees, Wren-tits & Bush-tits in Western
Agave, and Fan Oak in a gulch. This place
designated as Low Divide, 1000 ft., 6 1/2 mi. E
Smith River, Del Norte Co., Calif. Continued on W
to Smith River. I was again impressed by
the narrow belt of Redwood here (about 6 mi.)
From Smith River turned SE along the N side
of Smith River ^(stream) for about 5 mi. and to the
Redwood Highway which we followed E for
about 2 mi. and crossed just above where
the S Fork of Smith River joins the main fork
of Smith River. Followed up the S. Fork to the
end of the road but could find no good
place to camp so returned to the main
fork and tried to get permission to camp
around Berteluda but couldn't. So drove
up the road that runs SE ^{toward} the Soldiers
Well. About 3 mi. up the road found a

Palmer
1935

Itinerary

July 22 8 mi. E Crescent City. (cont'd.)
cont'd.

small clear space by the roadside at the edge of the Redwood. Here we stopped & waited for the Thunderstorm to let up & finally pitched camp about 4 P.M. It rained practically all the time after leaving Smith River (town) so everything is wet.

About 6 P.M. set 50 gov. size mousetraps. About 25 of these were in a sedgey meadow about 75 x 150 ft. next to camp. Traps set on damp ground beneath sedges 1-2 1/2 ft. tall or by several large logs in the bog. About 25 traps were set along the edge of the road in undergrowth of Salal, Holodiscus discolor, Rhododendron occidentale, Rhus diversiloba, Rubus vitifolius, Rubus parviflorus, Rubus spectabilis (?), Brake fern, Sword fern (Polystichum lonchitis) and Corylus, under Douglas Fir, Tan Oak and a few Redwoods.

July 23 Some rain and heavy fog last night. In 50 gov. size mouse traps caught 13 Peromyscus maniculatus.

Heard Spotted Towhee, Hermit Thrush, Wren-tits

In the evening, moved 15 of the traps

Palmer
1935

Itinerary

July 23 cont'd. 8 mi. E Crescent City cont'd,
along the road. These reset by logs
of Douglas Fir (?) in mixed Tan Oak
and Douglas Fir at the edge of the
Redwoods. Shot a Chickadee here in a large
Douglas Fir.
Johnson came in tonight with several
birds he had shot: 3 Juncos, 3 White-
crowned Sparrows and 1 Spotted Towhee.
These taken at Bald Hill, 9 mi. E Crescent
City, Del Norte Co., Calif.

July 24 In 50 gov. size mouse traps caught
1 Peromyscus maniculatus. Took in
traps and prepared to leave for Berkeley.

July 25 Berkeley, Alameda Co., Calif.

Broke camp 8 mi. E Crescent City about
4 P.M. July 24 and drove to Crescent City
and thence S to about Trinidad where
we camped for the night. Left there 6 AM.
today and drove ~~on~~ ^{out} 215. highway ¹⁰¹ via
Eureka, Willits, Santa Rosa and Richmond
Auto Ferry to Berkeley where we arrived
about 4 P.M..

Palmer
1935

Zapus pacificus

Donomore Meadow, 5800 ft., 15 mi. W Hilt, Siskiyou Co., Calif.

June 16, 1935

Caught a ♂ in 30 gov. size mouse traps in the wet meadow. Taken about 2 ft. from a small stream under dwarf willows in annuals ^{and grass}, 6-10 in. high. The annuals most noticeable were Ranunculus and yellow violets. oat bait.

June 17, 1935

Caught a ♀ in 30 mouse traps in practically the same situation as the one taken yesterday but slightly farther up the creek. There was slightly more grass and sedges where this one was caught than where the one was caught yesterday. Had 6 Embryos x 3 mm. oat bait.

June 18, 1935

Caught a ♂ in 46 gov. size mouse traps set near the stream in the wet meadow. Taken under Alnus tenuifolia on fairly moist ground in low annuals and grass. Trap was about 3 ft. from the stream. oat bait.

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co., Calif.

July 2, 1935

About 8 P.M. (nearly dark) saw a Zapus hop across a small gravelly patch at the edge of the meadow and into a willow about 4½ ft. high. It hopped up onto a horizontal branch about 5 inches off the ground.

Palmer
1935

Zapus pacificus

Poker Flat, 5000 ft., 12 mi. NW Happy Camp (cont'd.)

July 2, 1935

and there it balanced for about a minute, slowly moving the tail back and forth, possibly to maintain balance. The tail was held at an angle of about 60° from horizontal.

July 5, 1935

Caught 1 ♀ in 53 gov.-size mouse traps set in the wet meadow.

Palmer
1935

Neurotrichus gibbsii

Clear Creek, 1400 ft., 3 mi. W Klamath River, Siskiyou Co., Calif.

June 24 Caught 1 in 35 traps set up Four Mile Creek which runs into Clear Creek from the North. The specimen, a ♂, was taken on a narrow ledge of the steep mossy stream bank. Around the trap was a sparse growth of Boykinia elata and Five finger Fern (Adiantum pedatum). On the steep bank, overhanging the stream were Alder, Acer macrophyllum, Cornus nuttallii, Lithocarpus densiflorus and Quercus chrysolepis. At several places, on sandy bars along the stream, small surface runways like miniature mole workings were noted. The runways commonly terminated in an opening. It is quite probable that these runways are made by this species.



Palmer
1935

Sorex ^{pacificus}
bendirii

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co.,
Calif.

July 8, 1935

Caught a ♂ in 70 gov.-size mouse traps in the wet meadow. Taken in tall sedges about 4 ft. from the stream in the narrow canyon where the stream flows out of the meadow to the East. Oat bait.

July 9, 1935

Caught a ♂ in 75 gov.-size mouse traps in the wet meadow. Taken in tall sedges on fairly dry ground near the edge of the meadow. Nearby were small willows, Ranunculus and shooting stars (Dodecatheon). Oat bait. (Put up by D. H. Johnson).

Palmer
1935

Sorex palustris

Poker Flat, 5000 ft., 12 mi. NW Happy Camp, Siskiyou Co., Calif.

July 5, 1935

Caught a ♂? in one of 53 gov.-size mouse traps set in a wet meadow. This specimen was taken about 2 ft. from ^{a small} ~~the~~ stream in an oat baited trap in tall sedges, grass, Ranunculus, and shooting stars.

July 7, 1935

Caught a ♀ in one of 70 gov.-size mouse traps set in the wet meadow. Taken about 2 ft. from the stream at a bend on muddy ground under tall sedges. Had 4 embryos x 7 mm.

July 8, 1935

Caught a ♀ in one of 70 gov.-size mouse traps set in the wet meadow. Taken at the edge of the stream by a quiet pool about 3 x 6 ft. on soft mud under tall sedges. Oat bait. Had 4 very small embryos.

About 6 P.M. found a ♂ in one of 70 traps in the wet meadow. This one was still alive when found and bit at the trap and sniffed vigorously in my direction with vibrissae constantly in motion. The trap was on moist ground in tall sedges under dwarf willows about 9 ft. from a small stream.

Palmer
1935

Lasionycteris noctivagans

E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte
Co., Calif. July 12, 1935

Shot a ♂ about 7:30 P.M. It was the first bat seen. In flight was rather slow with fairly rapid wing beats. Flying upstream fairly high in a grassy flat surrounded by mixed Garry Oak, Douglas Fir, yellow Pine, Madrone and Kellogg Oak. Clear & warm.

Palmer
1935

Myotis

E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co., Calif.

July 11, 1935

Shot a ♀ about dusk as it was flying rather low around some buildings in a grassy flat surrounded by mixed Garry Oak, Douglas Fir, Yellow Pine and Knobcone Pine. The buildings are about 100 ft. from the stream. This ♀ had no embryos.

July 12, 1935

Shot a ♀ about 8:30 P.M. at the same place as July 11. Warm and clear.

July 13, 1935

Shot 2 ♀♀ in the evening at the same place as July 11 + 12. Warm, rather sultry and somewhat cloudy.

Rowdy Creek, 1 1/2 mi. E Smith River, Del Norte Co., Calif.

July 16, 1935

Shot 1 ♀ as it flew back and forth over the creek at the edge of the alders. It seemed to stay out over the water most of the time. Saw only one other bat apparently larger than this one. This is in typical Redwood Association. Clear and fairly warm.

Palmer
1935

Eptesicus fuscus

E. Fk. Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del Norte Co.,
Calif. July 13, 1935

Shot a ♂ about dark as it flew up the canyon. Flying in a fairly straight line, rather high at the edge of a grassy flat near some buildings. Flat is surrounded by mixed Garry Oak, Kellogg Oak, Douglas Fir, Yellow Pine, Knobcone Pine and Madrone. Warm, rather sultry and somewhat cloudy.

July 14, 1935

Shot a ♂ at the same place as July 13. It was raining slightly when the bat was shot.

Palmer
1935

Sorex townsendii
~~sageana~~

Donner Meadow, 5800 ft., 15 mi. W. Holt, Siskiyou Co., Calif.

June 16, 1935

Caught 1 ♀ by a log in dense forest of
Red Fir, White Fir, Douglas Fir and
Pinus monticola. Bacon + Oat bait. Had
no embryos.

Palmer
1935

Citellus douglasii

Little Shasta R., 3600 ft., 3 1/2 mi. NW Summit Goose
Nest Mtn., Siskiyou Co., Calif. May 22, 1935

Shot a ♀ here at about 9 A.M. She ran across the road and up a hillside above the road in brake ferns beneath small yellow pines, Garry Oak and Incense Cedar. No embryos, but had been nursing young.

E. Fork Illinois R., 1900 ft., 1/4 mi. S Oregon line, Del
Norte Co., Calif. July 15, 1935

Shot a half grown ♀ in a rock pile where placering had been carried on at the edge of the stream. Poison Oak was growing in the rockpile. Trees nearby: Douglas Fir, Madrone, Garry Oak, Yellow Pine, Alder, and Yew.

Rowdy Cr., 1 1/2 mi. E Smith River, Del Norte Co., Calif.
July 16, 1935

Shot a ♂ about 7:30 A.M. at the entrance to its burrow. It was stripping the grains from dry grass. The burrow was on a steep bank above the road under thickets of wild blackberry and thimble-berry under *Corylus rostrata* and large brake ferns. No redwoods were nearer than about 100 ft. but stumps indicated that they had once been here.

Palmer
1935

Callospermophilus chrysodeirus

Hd. Doggett Cr., 5800 ft., Siskiyou Mts., Siskiyou Co., Calif.

June 3, 1935

Shot a ♀ in a bare flat about 100' x 150'. She "chirped" much like a Douglas Ground Squirrel from the lower branches of a Red Cherry after she had run over to the edge of the flat. The flat had a small fringe of Red Cherry around the edge back of which was heavy forest of mixed Red Fir, White Fir, Pinus monticola and Incense Cedar. This ♀ had 5 embryos 8 mm. in length (crown-rump).

June 8, 1935

Saw one run down from the top of a stump about 12 ft. high. This was near the edge of heavy forest of Red Fir with some White Fir.

June 10, 1935

F. G. Palmer
Southern California
1935-1936

Palmer
1935

Catalog

Ontario, 1100 ft., San Bernardino Co., Calif.

Aug. 8, 1935

735 ♂ *Thomomys bottae* - 279-96-35-9

Jurupa Mts., 850 ft., 6 3/4 mi. NW Riverside, Riverside Co., Calif.

~~735~~

Aug 15, 1935

736 ♀ *Perognathus fallax* - 189-113-24-9

737 ♀ " " - 190-114-24-9

738 ♀ " " - 188-114-24-9.5

Skull

only

739 ♀ " " (?) - 205-121-24-8

740 ♀ *Neotoma lepida* - 303-150-33-30

741 ♂ *Peromyscus eremicus* - 197-103-21.5-19

742 ♂ *Reithrodontomys megalotis* - 142-74-17-13

Skull

only

743 ♂ " " - 146-80-16-13

744 ♀ *Dipodomys agilis* (?) - 295-188-42-17

745 ♂ " " - 307-195-43-17

746 ♂ *Peromyscus maniculatus* - 155-80-21-18

1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 17, 1935

Skull only

Pick Up. 747

Spilogale gracilis.

Aug. 18, 1935

748 ♀ *Reithrodontomys megalotis* - 134-70-17-14

749 ♀ " " - 138-75-16-14

750 ♂ " " - 139-72-18-14

751 ♂ " " - 134-72-17.5-14

752 ♀ *Perognathus* ^{californicus} ~~fallax~~ - 199-110-25-12

753 ♀ " " - 198-111-25-12

754 ♂ *Peromyscus eremicus* - 180-100-21-17

Palmer
1935

Catalog.

1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 18, 1935

755 ♂ *Peromyscus maniculatus*. 132-55-19-17

2 1/2 mi. E Santa Cruz, Santa Cruz Co., Calif

Sept. 8, 1935

756 ♂ *Scapanus latimanus* -196-40-23 Coll. H.C. Russell

757 ♀ " " -168-32-20.5 " " " "

Sept. 9, 1935

758 ♂ *Thomomys bottae* -271-84-34-8 Coll. W.C. Russell

759 ♂ " " -225-57-30-8 " " " "



Palmer
1935

Itinerary

Ontario, 1100 ft., San Bernardino Co., Calif.

Aug. 8 Made 2 sets for gophers in the yard at my home 1158 Columbia Ave., Ontario. Last night. This morning found 1 Thomomys battal in the 2 sets. Took in both sets.

In the evening (6 P.M.) drove E on 4th St. 7 mi. Set traps at a place designated as 7 mi. E Ontario, 1050 ft., San Bernardino Co., Calif. Set 50 gov.-size mouse traps across a low sand dune on the S side of the road. The dune is very fine sand with scattered low plants of Ambrosia psilostachya, Oenothera pallida var. californica, Nicotiana bigelovii, Salsola kali, Croton californicus, and Amaranthus gracizans (?). Traps set 15 paces apart by plants.

Aug 9. 7 mi. E Ontario, 1050 ft., San Bernardino Co., Calif.

At 6 A.M., 50 gov.-size mouse traps on the sand dune held mammals of the following species: Dipodomys agilis, 1; Dipodomys merriamii, 1; Peromyscus maniculatus, 5; and Reithrodontomys megalotis, 3.

Jurupa Mts., 850 ft., 6 3/4 mi. NW Riverside, Riverside Co., Calif.

Aug 14. In the evening, drove SE from Ontario to the above locality where I set 40 gov.-size mouse traps. Traps set 15 paces apart about 1/3 in the sandy bottom

Palmer
1935

Itinerary

Aug 14
Cont'd.

Juupa Mts, 850 ft. (cont'd)

of gulch by bushes of Salvia apiana,
Artemisia californica or Salvia mellifera.
The rest were set across a slope of
hard adobe soil with scattered plants
of Artemisia californica, Salvia apiana,
Eriogonum fasciculatum, Opuntia sp.,
and at the end of the line ran thru
a patch of Avena fatua where there
were also a few plants of Cucurbita
foetidissima.

Aug. 15

At 6 A.M. found 16 mammals of the
following species in the 40 traps: Neotoma
lepidus, 1; Dipodomys agilis, 2; Perognath-
us fallax, 5; Reithrodontomys megalotis,
3; Peromyscus eremicus, 2; Peromyscus
maniculatus, 3.

Saw several brush rabbits and 1
jack rabbit. There was quite a flock
(50-60) Doves in the wild Oats. Wren-
tits and Gnatcatchers were quite common
and saw 1 Brown Towhee.

Aug. 17 Left Ontario and drove via Rincon, Santa
Ana Canyon, Oline, Justin and Irvine
to Laguna Beach.

Laguna Beach has a range of hills
back of it, which runs up rather

Palmer
1935

Itinerary

Laguna Beach, Orange Co. (cont'd.)

Aug. 17 ^{cont'd.} sharply from the rocky cliffs at the shore -

In the evening drove N.E. from the town on a road that runs up the hills. Saw a dead Rattlesnake by the roadside.

At a point designated as; 1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif., set out 49 traps (gov. size mouse) in a loop running down a hillside across a gulch and back to the road. Most of the hillside is covered by Arena fatua (now beaten down flat) with scattered plants of Euphorbia albomarginata (?) and a few clumps of saw grass - Cladium mariscus. In the gulch there is a rather thick cover of bush 2-3 ft. high of Artemisia californica and Eriogonum fasciculatum with a few scattered shrubs 4-8 ft. high on the ^{facing} N. slope of Rhus integrifolia and Sambucus glauca. The soil is adobe, baked hard and much cracked.

Traps were set about 15 steps apart, about $\frac{2}{3}$ ^{of them} on the open hillside + $\frac{1}{3}$ in

Palmer
1935

Itinerary

Aug. 17. 1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.
collected. The chaparral.

On the hillside picked up the skull of a Spilogale. Saw several brush rabbits.

Aug. 18. Traps this A.M. at 6 o'clock held the following mammals: Perognathus californicus, 2; Mus musculus, 4; Reithrodontomys megalotis, 7; Peromyscus maniculatus, 1; Peromyscus eremicus, 1.

In the afternoon, returned to Ontario.

Palmer
1935

Thomomys bottae

Ontario, 1100 ft., San Bernardino Co., Calif.

Aug 8, 1935

Caught one in the yard at my home,
1158 Columbia Ave., Ontario. Soil here is
deep brown loam. This specimen, a ♂,
had testes somewhat retracted into the body
cavity.

Palmer
1935

Perognathus fallax

Juniper Mts., 850 ft., 6 $\frac{3}{4}$ mi. NW Riverside, Riverside Co., Calif.

Aug. 15, 1935

Caught 5 (♀♀) in 40 gov. size mouse traps. 2 taken in sandy wash with few bushes of Salvia apiana, Salvia mellifera and Artemisia californica. 3 taken on flat with mixed fairly thick growth of Eriogonum fasciculatum, Salvia apiana, Opuntia, and Avena, all on hard baked soil.

= Perognathus californicus
1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 18, 1935

Caught 2 ♀♀ in 49 gov. size mouse traps. These taken on west facing hillside on bare hard ground beneath large bushes of Artemisia californica.

Palmer
1935

Dipodomys merriami

7 mi. E Ontario, 1050 ft., San Bernardino Co. Calif.

Aug. 9, 1935

Caught 1 in 50 gov.-size mouse traps set 15 paces apart across a low dune of fine sand by low plants of Ambrosia psilostachya, Oenothera pallida var. californica, Nicotiana bigelovii, Salsola kali, Croton californicus, and Amaranthus gracizans?. This specimen, a ♂, had enlarged testes. Numerous tail tracks in the sand would seem to show that there is a greater population here than the record indicates.

Palmer
1935

Dipodomys agilis

7 mi. E Ontario, 1050 ft., San Bernardino Co., Calif.

Aug 9, 1935

Caught 1 in 50 gov.-size mouse traps set 15 paces apart across a low dune of fine sand. Traps set by low plants of Ambrosia psilostachya, Oenothera pallida var. californica, Nicotiana bigelovii, Salsola kali, Croton californicus, and Amaranthus graecizans(?).

Jurupa Mts., 850 ft., 6³/₄ mi. NW Riverside, Riverside Co., Calif.

Aug. 15, 1935

Caught 2 (1♂, 1♀) in 40 gov.-size mouse traps on a flat with hard smooth ground with moderately thick growth of low bushes of Artemisia californica, Salvia apiana and Eriogonum fasciculatum.

1

Palmer
1935

Reithrodontomys megalotis

1 mi. E Ontario, 1050 ft., San Bernardino Co., Calif.

Aug 9, 1935

Caught 3 (all ♂♂) in 50 gov.-size mouse traps set 15 paces apart across a low dune of fine sand by scattered low plants of Ambrosia psilostachya, Oenothera pallida var. californica, Nicotiana bigelovii, Sarcola Kali, Croton californicus, and Amaranthus graecizans.

Juniper Mts., 850 ft., 3 1/4 mi. NW Riverside, Riverside Co., Calif.

Aug. 15, 1935

Caught 3 (2♂, 1♀) in 40 gov.-size mouse traps set in line through sparse low brush consisting of Salvia apiana, Salvia mellifera, Artemisia californica, Eriogonum fasciculatum and Opuntia sp. on hard baked soil.

1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 18, 1935

Caught 7 (4♂, 3♀). Most of these taken in matted wild oats and Euphorbia albomarginata (?) or in clumps of saw grass (Cladium mariscus) scattered around the open west facing slopes. One was taken in a gulch in mixed Avena fatua and Eriogonum fasciculatum.

Palmer
1935

Peromyscus eremicus

Juniper Mts., 850 ft., 6 $\frac{3}{4}$ mi. NW Riverside, Riverside Co. Calif.

Aug. 15, 1935

Caught 2 (♂♂) in 40 gov. size mouse traps. Both taken under overhanging edge of large boulders in small wash by bushes of Salvia apiana and Salvia mellifera with few bushes of Artemisia californica.

1 mi. NE Laguna Beach, 500 ft., Orange Co. Calif.

Aug. 18, 1935

Caught 1♂ in 49 gov. size mouse traps. This specimen was caught in the bottom of a small gulch in a west facing hillside. The ground here was covered with a thick growth 2-4 ft. high mainly of Artemisia californica and Eriogonum fasciculatum.

Palmer
1935

Peromyscus maniculatus

7 mi. E Ontario, 1050 ft., San Bernardino Co., Calif.

Aug. 9, 1935

Caught 5 (~~♂~~) in 50 gov.-size mouse traps set across a low dune of fine sand. Traps every 15 paces by scattered low plants of Ambrosia psilostachya, Oenothera pallida var. californica, Micotiana bigelovii, Salsola Kali, Croton californicus, and Amaranthus gracizans.

Juniper Mts., 850 ft., 6 3/4 Mi. NW Riverside, Riverside Co., Calif.

Aug. 15, 1935

Caught 3 ♂♂ in 40 traps in rather open low brush on hard baked soil. Plants were Salvia apiana, Artemisia californica, Eriogonum fasciculatum and Opuntia.

1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 18, 1935

Caught 1 ♂ in 49 gov. size mouse traps. This specimen taken on ^{NW} side of gulch under bush of Rhus integrifolia at edge of grassland and close to several large clumps of Cladium mariscus (Sawgrass).

Palmer
1935

Neotoma lepida

Juncopalm Mts., 850 ft., 6 3/4 mi. NW Riverside, Riverside Co., Calif.

Aug. 15, 1935

Caught 1 ♀ in 40 gov.-size mouse traps.
Taken in sandy bottom of small
wash by a large plant of Cucurbita
foetidissima with scattered bushes of
Salvia apiana, Artemisia californica,
and Salvia mellifera nearby.

Palmer
1935

Mus musculus

1 mi. NE Laguna Beach, 500 ft., Orange Co., Calif.

Aug. 18, 1935

Caught 4 (all ♀♀) in 49 gov.-size
mouse traps. All taken in open
field sloping to west & covered
with matted, dry wild oats and
Euphorbia albomarginata (?) with
scattered clumps of Cladium
mariscus (sawgrass)

Palmer
1935

Itinerary

Angel Island, San Francisco Bay, Calif.

Oct. 17, 1935

Left Berkeley 8 A.M. for a preliminary survey of Angel Island. Arrived on Steamer ~~the~~ General Frank M. Cox at 10:35. Went up to Headquarters and reported to Major J. E. Slack. I was very cordially received and also met the Commanding Officer, who reports that they are having trouble with rats and would like any advice I could give on their control. He would also like some advice on their gardeners. I was then sent to the Hospital where I met Sgt. Golar, temporarily in charge, and was given accommodations for meals and bed.

At 11:05 A.M., left Hospital and walked N. along the E. side of the island about $\frac{1}{4}$ mi. to the Immigration Station. I followed the paved road along a moderately steep hillside. The vegetation cover looks much like the S. side of Strawberry Canyon with scattered Live Oaks and California Bay Trees and a few madrone trees. Some of the hillsides are open and covered with dry grass. Others are

Palmer
1935

Itinerary

Oct. 17
cont'd.

Angel Island, S.F. Bay, Calif. (cont'd.)
covered with chaparral - Coyote brush
in the more open fields and mixed
Poison Oak, Corylus, Wild Blackberry,
Christmas berry and Brake ferns
with a few Elder trees (Sambucus
glauca). In a few seepage spots there
are willows.

Took a pencil census of birds from
11:05 - 11:45. Weather clear and warm.

Recorded: Wren Tit ⁴ 11, Spotted Towhee
4, Bush Tit 4, Flicker 2, Cedar Waxwing
5, Cooper Hawk 1, Greenbacked Goldfinch
17, Audubon Warbler 8, White Crowned
Sparrow 6, Song Sparrow 6, Black
Phoebe 1, English Sparrow 2, Unknown
Small Flycatcher 2.

Found fresh mole workings about
150 yds. N of Hospital on W side of road.
Saw Deer Tracks in mud on the hillside.
Saw 2 Microtus in grass under a bush.

Returned to Hospital at 11:45 and ate
lunch. I asked Sgt. Jolar about some
of the small mammals. He says there
are no wild rabbits on the island altho
may be a few escaped domestic rabbits.
He reports ground squirrels from the

Palmer
1935

Itinerary

Angel Island cont'd.

Oct. 17 West end of the island; moles are common around old gardens near the schoolhouse at the west end of the island. He also says there are lots of meadow mice and rats (which I believe must be brown rats).

While writing these notes (after lunch) I have been sitting under the shade of several live oaks. Two California Woodpeckers flew into one and stayed several minutes, keeping up their harsh calls. A few minutes later, a sharp-shinned Hawk flew into the lower branches of a Calif. Bay tree and perched. It was scolded "continuously" by a Vigors Bewick Wren.

Left about 1:45 and walked over the main crest of the island to the west end, a distance of about $1\frac{3}{4}$ mi. The south side of the island is largely covered with dry grass, Chlorogalum, and scattered bushes of Baccharis pilularis and Artemisia californica. At the west end, there is a burnt over area of about 10 acres where mole workings were very thick before

Palmer
1935

Itinerary

Angel Island (cont'd.)

Oct. 17
cont'd.

burning. Now, however, there are very few fresh runways. There I saw a gerhonotus which got away. Returned via a bridle path which runs around the N side of the island about half-way up the slope. Saw a mole skoling up a ridge in moist black soil by the trail. I made a grab for it with my hands but failed to get it. Near here I saw 2 Thamnophis ordinoides (?). The N. and N.E. facing slopes are covered by dense growth of Corylus rostrata, Wild Blackberry, Poison Oak, Brake Ferns, Sambucus glauca, Ceanothus, ^{a few Madroñes} and Small Live Oaks. N.W. facing slopes are covered with a rather thick growth of Baccharis and Artemisia + Adenostoma. On this walk I saw several flocks of Juncos, 3 coveys of quail, many White-Crowned Sparrows, Audubon Warblers, Song Sparrows and Green-backed Goldfinches. Also saw a few Fox Sparrows and Spotted Towhees and 1 Plain Titmouse. Jays and Brown Towhees were conspicuously absent as far as I could tell.

Palmer

1935

Itinerary

Oct. 17
cont'd.

Angel Island (cont'd.)

There are a few clumps of Eucalyptus trees near the S.E. and S.W. ends of the island. However, most of the island is apparently little altered by man. Most of the buildings are close to the Bay ~~and~~ in a narrow fringe around the East and N. sides. Probably, very little hunting is done except for Hawks and Crows. There apparently is very little grazing done, and that all by horses or mules.

Left on the 4:30 boat for Berkeley to get traps and supplies.

Angel Island, San Francisco Bay, Marin Co., Calif.

Oct. 18. Left Berkeley at 10:30 A.M. and arrived at Angel Island at 1:50. Most of the afternoon was spent in getting settled.

At 6 P.M. went out and set 6 ^{Macabee} gopher traps in deep mole runways. Also set 23 gov.-size mouse traps in a line up the hill between the Hospital and the stables. Traps set about 15 steps apart in dry grass under live oaks.

Palmer
1935

Itinerary

Angel Island (Cont'd.)

Oct. 19. At 6 A.M. found 6 gopher traps in mole runways sprung, but caught no mole. In 23 gov.-size mouse traps caught 12 Microtus californicus. In one trap caught 2 Microtus!! It is rather clear today, slightly more lazy than yesterday and fairly warm. About 4 P.M. set 45 gov. size mouse traps near Blunt Point at the S.E. Corner of the Island. Traps were set about 10 steps apart in grass, Wild Blackberry, Baccharis, Artemisia and Bush Lupine. The vegetation is low and matted. Most of the traps were set in runways of Microtus which are very numerous here.

Set 3 more Macabee gopher traps for moles in deep runways at the same place. Traps were set last night about halfway between the Hospital and the Stables. Reset the other six Macabee traps there which had been sprung during the day. Also set 1 "spike trap" ~~to~~ on a surface runway here.

Palmer
1935

Itinerary

Angel Island (cont'd.)

Oct. 20. Cold and foggy This A.M. At 6 A.M. found 25 Microtus californicus in 45 gov- size mouse traps set near Point Blunt.

The 9 Macabee gopher traps were all sprung and I held a Scapanus latimanus. The "spike trap" was not sprung.

Left on the 9:30 boat for Berkeley arriving at about 11:45 A.M.



Sketch Map of Angel Island

31250

Trap lines ~~~~~

Palmer
1935

Microtus californicus

Angel Island, San Francisco Bay, Marin Co., Calif.

Oct. 17 In a hike across the island, I saw many burrows and runways in the grass. Almost every grassy hillside is riddled with holes and runways. Saw several mice in the runs.

Oct. 19 Caught 12 in 23 gov. size mouse traps set along the edge of a road. Traps every 15 paces in dry grass and weeds under Live Oaks and a few Elder bushes. About $\frac{1}{2}$ the traps were set in Microtus runways. Mice of this species were caught both in runways and in such places as leafy slopes under live oaks or on bare open ground. 1 trap caught 2 Microtus, a rather unusual thing. Both of these were almost completely eaten, probably by other Microtus. The great abundance of Microtus may ^{possibly} be accounted for by absence of competition from other species, since I caught no other kind of mice. Also it is quite possible that there are no carnivores on the island to keep the mice in check. I understand that

Microtus californicus 2.

Palmer
1935

Angel Island (cont'd.)

Oct. 19. Hawks are shot whenever possible
cont'd. This too may tend to allow this
overpopulation.

Oct 20. Caught 25 in 45 gov-size mouse
traps set on a slope near Blunt
Point. Traps about 5-10 paces apart
in low tangled cover of Baccharis,
Artemisia, grass, wild Blackberry
and Bush Lupine. Several of the
mice were eaten as on the previous
night and I suspect more Microtus.
No other mice of any kind were
caught here -

Palmer
1935

Scapanus latimanus

Angel Island, San Francisco Bay, Marin
Co., Calif.

- Oct. 17 Found mole workings common on the island. On the N.W. side of the island saw a mole pushing up a mound in soft moist black earth under Couglas, Blackberry and Poison Oak. I made a grab for it with my hands but failed to get it.
- Oct. 20. Caught 1 (♂) in one of 9 Macabee gopher traps set in deep runways on an open hillside in heavy red-brown soil. There were many mounds here. The soil was quite moist a short distance (about 1 inch) below the surface, but the ground was baked on top. Found cutworms and sawbugs in the soil which are probably an important part of the moles' food here.

Palmer
1935

Catalog.

Angel Island, San Francisco Bay, Marin Co., Calif.

Oct. 19, 1935

760.	♀	<i>Microtus californicus</i>	-162-51-22-15
761	♂	" "	-168-53-22-15.5
762	♀	" "	-167-51-22-14
763	♂	" "	-185-58-23-15.5
764	♀	" "	-171-55-22-15.5
765	♂	" "	-171-51-23-15
766	♂	" "	-155-48-22-15

Oct. 20, 1935

767	♂	<i>Scapanus latimanus</i>	-177-38-23
768	♂	<i>Microtus californicus</i>	- 161 - 42 -22-16
769	♀	" "	-160-48-23-14
770	♂	" "	-188-59-22-15
771	♂	" "	-170-55-22-15
772	♂	" "	-190-60-23-15
773	♂	" "	-170-53-22.5-15
774	♂	" "	- 168 - 47 -23-15
775	♂	" "	-156-47-22.5-15

Mth. of San Antonio Cañon, 2000 ft., Tm. N. N. W. upland,
San Bernardino County, Calif.

Dec. 20, 1935

776	♀	<i>Pipilo fuscus</i>
777	♂	<i>Zonotrichia leucophrys</i> .
778	♂	<i>Pipilo maculatus</i>
779	♂	<i>Pipilo fuscus</i>

Palmer
1936

Itinerary

W. side El Cerrito (Knoll), 25 ft., Alameda Co., Calif.

Jan. 22 Left Berkeley 8:30 A.M. with E. J. Hooper and D. N. Johnson and drove to El Cerrito (Knoll) and around the west side to a railroad siding of N. O. R. Here hunted birds 'til 11 A.M. Shot 3 Zonotrichia leucophrys in Baccharis and tall grass, 1 Junco oreganus in Baccharis on a grassy hillside, 1 Calypte anna from telephone wires near a grove of Eucalyptus and 1 Carpodacus mexicanus from a flock perched in a large Monterey Cypress.

Saw a Kingfisher, 1 Sharp-shinned Hawk, and several Song Sparrows in the Salicornia marsh. Also saw many Audubon Warblers in the Eucalyptus groves. There was quite a flock of ducks on the bay but they were too far out to identify.

Most of the area covered in hunting was east of the railroad tracks. This area is rather level, with scattered clumps of eucalyptus trees. Between the trees, the ground is covered by new green grass and low annuals. Scattered thru the open areas are

Palmer
1936

Itinerary -

Jan 22
cont'd.

bushes of Baccharis and tall stalks of dead Thistles and grasses. To the N there is a marshy area where El Cerrito Creek flows into the bay. This area is largely covered by low Salicornia.

The only mammals seen were 3 Norway Rats near the edge of the marsh. Runways and tunnels indicate a good population of Microtus and Gophers. Also found a few mole workings in the softer ground.

Feb. 15.

1 mi. W Summit Mt. Diablo, 3000 ft., Contra Costa Co., Calif.

Feb. 15, 1936

Left Berkeley about 3:30 P.M. with E.J. Propper and D.H. Johnson and drove E via Claremont Canyon, Lafayette and Walnut Creek to Mt. Diablo. Entered the park via the North gate and continued up the road to a point about 2 mi. by road from the summit where we left the main road, turning left following signs to Laurel Grove & Deer Flat trail. Stopped about 200 yds. from the main road by the Park boundary fence. Went through the gate there

Palmer
1936

Itinerary

Feb. 15
cont'd.

1 mi. W Summit Mt. Diablo, 3000 ft. cont'd.

and ran a line of 44 gov. size mouse traps up a gently sloping open hillside covered by short green grass. Here saw many gopher and *Dipodomys* burrows in the rather rocky red soil. The line ended at the edge of the chaparral and trees - *Adenostoma fasciculatum*, *Sambucus glauca*, *Artemisia tridentata* comprising the smaller bushes and *Umbellularia californica*, ~~and~~ *Quercus chrysolepis* and *Pinus coulteri* the trees.

Set one rat trap by a woodrat nest under a Calif. Bay tree.

Returned to Berkeley that evening. On the way back saw two *Onychomys columbianus* on an open grassy hillside near the road.

Feb. 16. Left Berkeley 8: AM. and returned to the traps set last P.M. The cold wind of last night was still blowing upslope (NE) but the heavy fog had somewhat dispersed.

In 43 mouse traps caught 17 mammals of the following species: *Thomomys talpae*, 1 ♀; *Dina musculus*, 1 ♀; *Microtus californicus*, 1 ♀ (missing); *Peromyscus*

Palmer
1936

Itinerary

Feb. 16
cont'd.

1 mi. W Summit Mt. Diablo, 3000 ft., (cont'd.)

Truei, 1♂, 1♀; Peromyscus maniculatus, 5♂, 4♀; Reithrodontomys m. longicaudus, 1♂, 1♀. In the rat trap caught 1 ♀ Peromyscus californicus.

We had hoped to get Dipodomys here, but apparently the weather conditions are rather poor for them. Altho we saw numbers of burrows, the only ones taken were 2 caught by Johnson on the hilltop just N of my trapline.

On the way back to Berkeley, saw 2 deer and several ground squirrels below the 2000 ft. level.

The only birds seen around the trapline were Horned Larks which flew about in the fog. Farther down the mountain saw California Jays, Western Bluebirds, Juncos and a Red-tailed Hawk. Near the base of the mountain were many Lark Sparrows, Thickers and several Sparrow Hawks.

Palmer
1935

Catalog

2 mi. NE Upland, 1400 ft., San Bernardino Co., Calif.

Dec. 27, 1935

780 ♂? *Pipilo fuscus*

781 ♂ *Thryomanes bewicki* - testis = 0

782 ♀ *Lanius ludovicianus*

783 ♀? *Carpodacus*

Ontario, 1000 ft., San Bernardino Co., Calif.

Dec. 29, 1935

784 ♀ *Thomomys bottae*. 214-60-29-8.5

1936

W side El Cerrito Knoll, 25 ft., Alameda Co., Calif.

Jan. 22, 1936

785 ♂ *Carpodacus californicus* - Wt. 21.4g.

786 ♂ *Zonotrichia leucophrys* - Wt. 25.5g.

787 ♀ " " - Wt. 22.8g.

788 ♂? " " - Wt. 29.8g.

789 ♀ *Junco oreganus* - Wt. 19.2g.

790 ♀ *Calypte anna* - Wt. 4.7g.

1 mi. W Summit Mt. Diablo, 3000 ft., Contra Costa Co., Calif.

February 16, 1936

791 ♂ *Reithrodontomys m. longicaudus* - 137-73-18-18 Wt. 8.6g.

792 ♀ *Peromyscus californicus* - 249-131-27-24 Wt. 44.7g.

793 ♀ *Microtus californicus* - 179-53-21-15 Wt. 51.3g.

794 ♂ *Peromyscus truei* - 181-91-23-22 Wt. 21.5g.

795 ♀ " " - 173-85-24-21 Wt. 22.6g.

796 ♀ *Mus musculus* - 158-81-19-14 Wt. 12.6g.

797 ♀ *Peromyscus maniculatus* - 170-74-20-18 Wt. 21.7g.

798 ♂ " " - 167-75-21-17 Wt. 21.3g.

Palmer
1936

Catalog.

Isabel Cr., 1800 ft., 2 1/2 mi. NW summit Mt. Hamilton, Santa Clara

Co., Calif.

Mar. 3, 1936

Coll. by D.H. Johnson,

799 ♂ *Peromyscus truei* - 183-84-23-24 Wt. 25.3 g.

800 ♂ " " - 198-103-23-23 Wt. 25.3 g. Coll. D.H. Johnson

801 ♂ " " - 183-93-23-23 Wt. 27.5 g. " "

802 ♀ " " - 195-102-23-22 Wt. 25.8 g. " "

803 ♂ " " - 190-100-24-23 Wt. 26 g. " "

804 ♂ " " - 196-99-23.5-23 Wt. 26.4 g. " "

805 ♀ " " - 200-104-23-23 Wt. 28.7 g. " "

806 ♂ " " - 193-100-23-24 Wt. 26 g. " "

Angel Island, San Francisco Bay, Marin Co., Calif.

Mar. 15, 1936

807 *Sceloporus*

808 *Gerrhonotus*

809 *Thamnophis*

810 *Thamnophis*

811 *Coluber*

March 16, 1936

812 ♀ *Passerella iliaca* - Wt. 42 g. Very fat

813 ♀ *Microtus californicus* - 174 - 48 - 22 - 14

March 17, 1936

814 ♂ *Scapanus latimanus* - 183-36-23.5

forefoot 24 x 20

815 ♀ " " - 182-36-22.5

forefoot 24 - 19

816 ♂ *Microtus californicus* - 182-51-22-15

817 ♂ " " - 194-55-23-14

818 ♂ " " - 191-55-23-15

819 ♀ " " - 165-43-21-14

Skull
only.

Palmer
1936

Catalog

Chaco Canyon National Monument, San Juan Co., New Mexico.

March 15, 1936

Sent in by L. V. Compton, 116 E. Terrace Ave.,
Gallup, New Mexico -

- 820 ♀ *Dipodomys* - 251-132-40-14 .. " " ^{Coll. by L. V. Compton}
821 ♀ *Peromyscus truei* - 171-86-23-25 .. " "
822 ♀ *Peromyscus maniculatus* - 161-67-19-17 .. " "
823 ♀ " " - 148-60-19-16 .. " "
824 ♂ *Reithrodontomys megalotis* - 140-66-17-14 .. " "
825 ♂ " " - 145-70-18-14 .. " "

2.3 mi. S Monte Rio, Sonoma County, Calif.

- 826 ♂ *Phenacomys longicaudus* - 167-72-20.5-12 ^{Coll. by S. B. Benson} _{Wt. 14.3g.}

6 mi. W Pennington, Sutter Co., Calif.

March 28, 1936

- 827 ♀ *Corvus* ^{Wt. 384.3g. Egg 3mm.} (skin + stomach) Coll. J. Hunter + H. True.
828 ♂ " ^{Wt. 458g. Testis 7mm.} " " " " "
829 ♂ " ^{Wt. 400g. Testis 15mm.} " " " " "
830 ♂ " ^{Wt. 421.3g. Testis 21mm.} " " " " "

Above 4 specimens sent in by Fish + Game Comm.

Sent in by L. V. Compton, 116 E. Terrace Ave., Gallup, N. M.

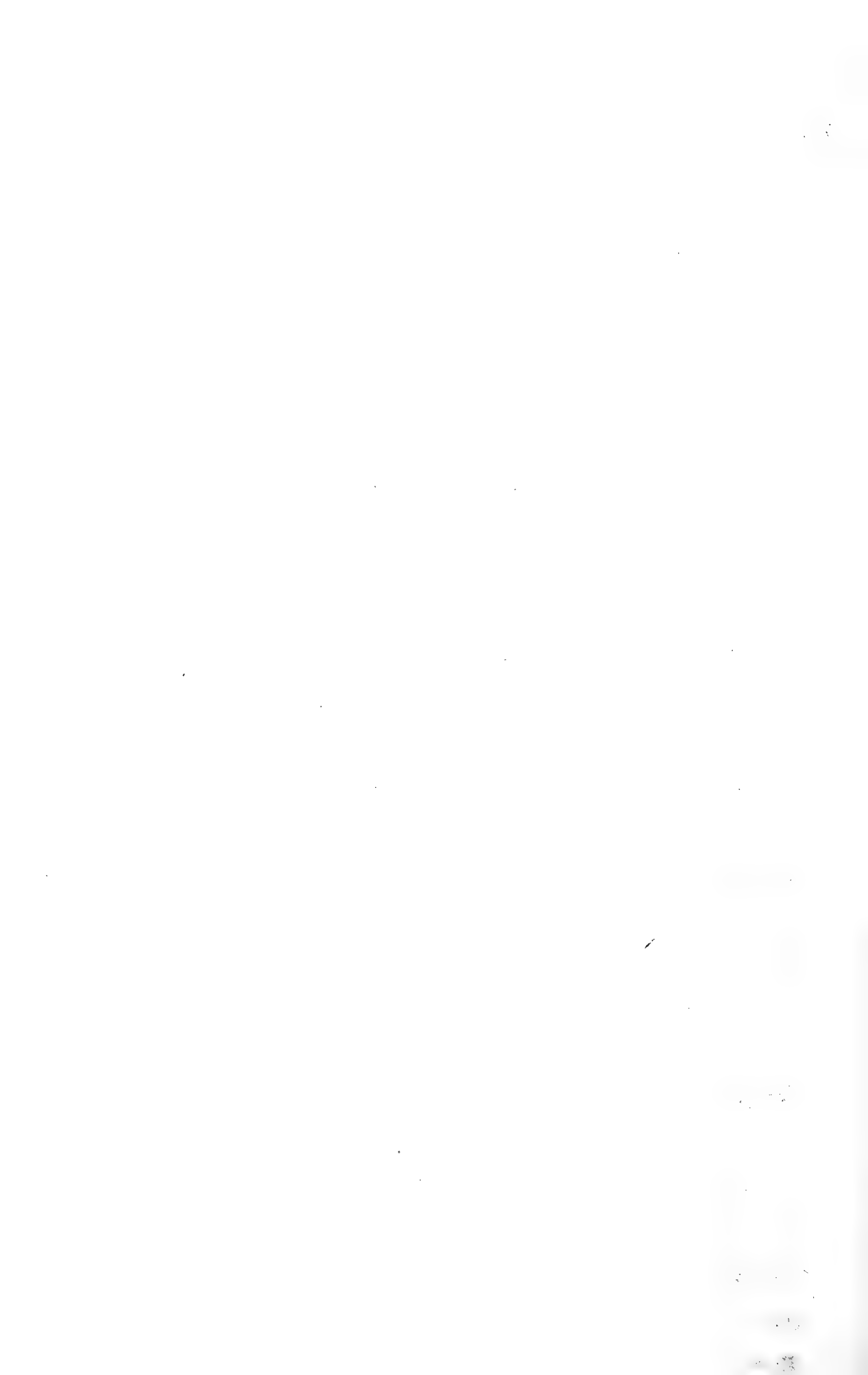
- 831 ♂ Sage Thrasher -

- 832 ♀ *Peromyscus maniculatus* - 161-64-20-17 (3 embryos. X 17mm.)

- 833 ♂ " " - 146-64-20-17

- 834 ♂ " " - 145-63-19-16

Skull
only



Palmer
1936

Catalog

Sent in by L. V. Compton, 116 E. Terrace Ave.,
Gallup New Mexico

Skull
only

835 ♂ *Reithrodontomys* - 135-63-16-14?

Vicinity of San Andreas, Calaveras Co., Calif.

April 26, 1936

All brought in by E. J. Hooper and M. M. Erickson

836 ♂ *Cyanocitta stellari* - Wt. 108.3 g. Testis = 4.3 mm.

837 ♂? " " Wt. 115.5 g.

838 ♂ " " Wt. 108.0 Testis = 2.0 mm.

839 ♂ " " Wt. 107.7 Testis = 4.3 mm.

840 ♀ " " Wt. 96.1 Ovary 8.5 x 4.9 mm.

841 ♂ " " Wt. 102.3 Testis = 3.2 mm.

842 ♂ *Aphelocoma californica* Wt. 93.8 g. Testis = 10 mm.

843 ♂ " " Wt. 94.3 g. Testis = 6.4 mm.

844 ♂ " " Wt. 105.2 g. Testis = 10.6 mm.

845 ♂ " " Wt. 93.1 g. Testis = 12.3 mm.

846 ♂ " " Wt. 88.3 g. Testis = ~~3.9 mm~~ 3.9 mm

847 ♂ " " Wt. 89.9 g. Testis = 3.7 g.

848 ♂ " " Wt. 85.0 g. Testis = 10.9 mm.

849 ♂ " " Wt. 90.4 g. Testis = 5.0 mm.

850 ♂ " " Wt. 87.1 g. Testis = 3.0 mm.

851 ♂ " " Wt. 90.7 g. Testis = 4.1 mm.

852 ♂ " " Wt. 98.9 g. Testis = 8.8 mm.

853 ♂ " " Wt. 96.1 g. Testis = 4.6 mm.

854 ♀ " " Wt. 94.1 g. Ovary 10.4 x 5.1.

Palmer
1936

Catalog

Vicinity of San Andreas, Calaveras Co., Calif.

April 26, 1936

- 855 ♂ *Aphelocoma californica* Wt. 90 g. Testis = 7.2 mm
856 ♂ " " Wt. 83.0 g. " = 8.7 mm
857 ♂ " " " 101.5 g. " = 8.5 mm
858 ♀ " " " 83.6 g. Ovary 9 x 7.2 mm
859 ♂ " " " 94.8 g. Testis = 8.3 mm
860 ♀ " " " 81.0 g. Ovary = 7.5 x 4.5 mm
861 ♀ *Cyanocitta stelleri*. " 98.4 g. " = 5.8 x 4.5 mm
862 ♂ *Accipiter cooperi* " 277.5 g. Testis = 15.2 mm
863 ♂ *Cyanocitta stelleri* " 109.2 g. " = 4.8 mm.
864 ♀? *Falco sparverius* " 141.3 g. ———
865 ♂ *Buteo borealis* " 920.0 g. Testis = 15 mm

U.C. Campus, Berkeley, Alameda Co., Calif.

May 6, 1936

- (acc. 4951) 866 ♂ *Thomomys bottae* - 237-72-31.5-7 Wt. 104.5 g.

Collected by W.C. Matthews. "Found wandering along path near Le Conte Oak, at 5:15 P.M. - sunshiny. Showed fight when cornered - came towards me gnashing its teeth."

Died at Berkeley, Alameda Co., Calif.

- 867 ♀ *Perognathus* May 21, 1936 - 125-47-25-10 Wt. 14.5 g

Above is one of S.B. Benson's captives which died

Section 6

F. G. Palmer
San Benito Co., Calif.
1936

Summer 1936
San Benito Co.

J. H. P. - Field Station

Palmer
1936

Catalog

Butts Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif.

May 25, 1936

- ✓ 868 ♀ *Myiarchus cinerascens* - Wt. Coll. D. H. Johnson
Ovary 9x3mm
✓ 869 ♂ *Sitta carolinensis* - Wt. 16.5g. Testis = 0
✓ 870 ♀ *Pipilo maculatus* - Wt. 39.5g. Ovary = Coll. D. H. Johnson
✓ 871 Juv. *Basileophus inornatus* - Wt. 14.6g. ~~Testis = 0~~ Coll. D. H. Johnson
✓ 872 ♂ *Aphelocoma californica* - Wt. 100.5g. Testis = 0 Coll. D. H. Johnson
✓ 873 ♂ *Chondestes grammacus* - Wt. 27.7g. Testis = 0 Coll. D. H. Johnson
✓ 874 ♂ *Myiochanes richardsoni* - Wt. 12.9g. Testis = 0
✓ 875 ♂ Juv. *Sitta carolinensis* - Wt. 15.6g. Coll. D. H. Johnson

May 26, 1936

- ✓ 876 ♂ *Psaloptila caerulea* - Wt. 5.6g.
✓ 877 ♀ *Chamaea fasciata* - Wt. 14.0g.
878 ♂ Juv. *Thryomanes bewickii* - Wt. 9.4g. Testis = 0
✓ 879 ♀ Juv. " " - Wt. 8.6g.

May 27, 1936

- ✓ 880 ♂ *Pica nuttalli* - Wt. 154.5g. Testis = 0
✓ 881 ♂ Juv. " " - Wt. 156g.
✓ 882 ♂ *Thryomanes bewickii* - Wt. 9.6g. Testis = 0 Coll. D. H. Johnson
✓ 883 ♂ *Pipilo fuscus* - Wt. 49.6g. Testis = 0 Coll. D. H. Johnson
✓ 884 ♀ *Icterus bullocki* - Wt. 32.6g. Ovary = Coll. D. H. Johnson
Skel. only 885 ♂ *Tachycineta thalassina* - Wt. 16.4g. Testis = 0 Coll. by D. H. Johnson
Skel only 886 ♂ " " - Wt. 14.8g. Testis = 0
✓ 887 ♂ *Dryobates nuttalli* - Wt. 34.8g. Testis = 0

May 28, 1936

- 888 ♀ *Peromyscus truei* - 199-96-24-24 Wt. 31.1g. Coll. D. H. Johnson
889 ♂ " " - 198-99-24-23.5 Wt. 27.0g. "



Palmer
1936

Catalog

Butte Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif.

May 28, 1936

- 890 ♂ *Peromyscus truei* - 207-103-23-24. Wt. 28.8g. Coll. D.H. Johnson
891 ♂ " " - 194-96-23.5-24 Wt. 28.1g. "
892 ♂ " " - 207-104-23.5-24 Wt. 30.7g. "
893 ♀ " " - 202-100-24-24 Wt. 33.5g. "
894 ♂ " *maniculatus* - 160-70-19-18 - Wt. 20.5g, "
895 ♂ " " - 163-77-20-17.5 Wt. 19.3g. "
896 ♀ " " - 165-73-19-18 Wt. 20.0g. "
897 ♂ " " - 161-74-19.5-18. Wt. 17.9g. "
898 ♀ *Pipilo fuscus* - Wt. 61.2g. ^{Large egg in} oviduct "

May 29, 1936

- 899 ♂ *Pica nuttalli* - Wt. 178.5g. Testis = ○
900 ♀ *Pipilo fuscus* - Wt. 48.5g. Ovary 8x5mm. Coll. D.H. Johnson
901 ^{Sex ?} *Aphelocoma californica* - Wt. 94.4g. "
902 ♀ ^{Juv.} " " - Wt. 82.4 "
903 ♂ ^{Juv.} *Dryobates nuttalli*. - Wt. 29.7g.
904 ♀ ^{Juv.} *Sitta carolinensis* - Wt. 14.6g.
905 ♀ " " - Wt. 16.0g. Ovary 4x3mm
906 ♂ ^{Juv.} *Baeolophus inornatus* - Wt. 14.5g.
907 ♂ *Pipilo maculatus* - Wt. 36.7g. ^{Testis} ○ Coll. D.H. Johnson
908 ♀ " " - Wt. 35.5g. Ovary 8x5mm. 11
909 ? *Junco oreganus* - Wt. 17.3g. "
910 ♂ ^{Juv.} *Baeolophus inornatus* - Wt. 14.3g. "
911 ♂ *Troglodytes aedon* - Wt. 9.0g. Testis = ○
912 ♂ " " - Wt. 9.7g. Testis ○ Coll. D.H. Johnson
913 ♂ *Vermivora celata* - Wt. 8.5g.


SKELE.
ONLY

Palmer
1936

Catalog




Butts Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif.

May 31, 1936


- ✓ 914 ♂ *Toxostoma redivivum* - Wt. 91.7g. Testis = 
✓ 915 ♀ *Id.* " " Wt. 89.0g.
✓ 916 ♀ *Chamaea fasciata* - Wt. 13.0g. Ovary = 5x4mm.
✓ 917 ♂ *Baeolophus inornatus* - Wt. 16.3g.
✓ 918 ♂ *Thryomanes bewicki* - Wt. 8.3g.
~~Skeleton only 919 *Calocitta auna* - Wt.~~
✓ 920 ♂ *Scapanus latimanus* - 169-36-22-0 Wt. 59.6g.
✓ 921 ♀ *Dryobates pubescens* - Wt. 20.9g.

Big Oak Flat, 3300 ft., 4 mi. NE San Benito, San Benito Co., Calif.

May 31, 1936.



- ✓ 922 ♂ *Junco oreganus* - Wt. 16.6g. Testis =  Coll. by D.H. Johnson
✓ 923 ♀ " " - Wt. 16.5g. Ovary 5x3mm. "
✓ 924 ♂ *Dryobates nuttalli* - Wt. 35.0g. Testis =  "
✓ 925 ♂ *Poliophtila caerulea* - Wt. 5.4g. Testis =  "

June 1, 1936

- ✓ 926 ♂ *Toxostoma redivivum* - Wt. 97.6g. Testis = 
✓ 927 ♀ *Junco oreganus* - Wt. 16.2g. Ovary = 7x5mm.
✓ 928 ♀ *Baeolophus inornatus* - Wt. 16.6g.

Butts Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif.

June 1, 1936

- ✓ 929 ♂ *Junco oreganus* - Wt. 17.4g. Testis =  Coll. D.H. Johnson
✓ 930 ♂ *Sialia mexicana* - Wt. 27.2g. Testis =  "
✓ 931 ♀ *Bubo virginianus* - Wt. 100.4g.

June 4, 1936

- ✓ 932 ♂ *Scapanus latimanus* - 167-35-21-0 Wt. 63.2g.
✓ 933 ♂ *Junco oreganus* - Wt. 15.3g.



Palmer
1936

Catalog

Butts Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif

June 4, 1936

- ✓ 934 ♂ *Aphelocoma californica* Wt. 95.6g. Testis = ○
✓ 935 ♀ *Chamaea fasciata* - Wt. 13.1g. Ovary = 4 x 7 mm.
✓ 936 ♂ " " - Wt. 15.2g. Testis = ○
937 ♀ *Lepus californicus* - 587-88-¹²⁷~~127~~-135 Wt. 2813g.
938 ♂ *Eptesicus fuscus* - 109-46-13-18 Tr. 9 Wt. 13.5g.

June 5, 1936

- ✓ 939 ♀? *Baeolophus inornatus* Wt. 15.6g.
✓ 940 ♂ *Sitta carolinensis* Wt. 16.5g.
✓ 941 ♂ *Dryobates pubescens* Wt. 23.5 Testis = ○
✓ 942 ♂ *Pica nuttalli* Wt. 164.1g Testis = ○ Coll. D. H. Johnson
✓ 943 ♂ " " Wt. 144.5g Testis = ○ "
✓ 944 ♂ *Dryobates pubescens* Wt. 21.6g. Testis = ○ "
✓ 945 ♀ *"* " Wt. 20.3g.

June 6, 1936

- ✓ 946 ♀ *Aphelocoma californica* Wt. 86.5g.
947 *Hyla regilla* !
948 " " " " " "

June 7, 1936

- ✓ 949 ♂ *Pipilo fuscus* - Wt. 53.5g. Testis = 9 x 12 mm.
950 *Junco oreganus* Wt 18.8g.
951 " " Wt 15.1g.
952 " " Wt. 16.9g.
953 " " Wt. 17.6g.
954 " " Wt. 20.6g.

Palmer
1936

Catalog

Hernandez, 2430 ft., San Benito Co., Calif.

June 8, 1936

955 *Lampropeltis gettulis boylii*

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 9, 1936

956 *Sceloporus*

957 "

958 "

959 "

960 ♂ *Junco oreganus* - Wt. 17.3g. Testis = ○

✓ 961 ♂ *Pipilo maculatus* - Wt. 38.3g. Testis = 12 x 8 mm.

✓ 962 ♂ *Spizella atrogularis* - Wt. 11.2g. Testis = ○

June 10, 1936

✓ 963 ♀ *Chamaea fasciata* - Wt. 13.8g. Ovary 4 x 6 mm.

✓ 964 ♂ *Nuttallornis mesoleucus* Wt. 32.6g. Testis = ○

✓ 965 ♂ *Pipilo maculatus* - Wt. 38.6g. Testis = 10 x 7 mm.

✓ 966 ♂ " " - Wt. 35.3g. Testis = 9 x 7 mm. Coll. D.H. Johnson

✓ 967 ♂ *Dryobates vilosus* - Wt. 71.5g.

✓ 968 ? *Baeolophus inornatus* Wt. 16.0g.

June 11, 1936

✓ 969 ♂ *Baeolophus inornatus* - Wt. 15.5g. Testis = ○

✓ 970 ♂ *Junco* " " Wt. 14.9g.

✓ 971 ♂ *Carpodacus mexicanus*? Wt. 19.0g.

✓ 972 ♂ *Polioptila caerulea* - Wt. 5.4g. Testis = ○

✓ 973 ♀ *Thryomanes bewickii* - Wt. 8.7g.

974 *Sceloporus*

Palmer
1936

Catalog

1 mi. SE summit San Benito Mtn, 4400 ft., San Benito Co, Calif.

June 12, 1936

- ✓ 975 ♀ *Junco oreganus* - Wt. 15.1g.
- ✓ 976 ♂ *Dryobates nuttalli* - Wt. 34.7g. Testes = ○ Coll. D.H. Johnson
- ✓ 977 ♂ *Sitta carolinensis* - Wt. 15.3g.
- ✓ 978 ♀ *Pipilo maculatus* - Wt. 38.6g. Ovary 8x7mm.
- ✓ 979 ♂ *Dendroica nigrescens* - Wt. 8.9g. Testes = ○
- ✓ 980 ♂ *Dryobates villosus* - Wt. 72.0g. Testes = ○
- ✓ 981 ♀ *Thryomanes bewickii* - Wt. 9.5g. Ovary 8x5mm.
- ✓ 982 ♂ *Pipilo maculatus* - Wt. 40.2g. Testis 12x8mm. Coll. D.H. Johnson

June 13, 1936

- ✓ 983 ♂ *Spizella atrogularis* - Wt. 12.1g. Testes = ○
- ✓ 984 ♂ " " - Wt. 12.1g. Testis = ○
- ✓ 985 ♂ *Chamaea fasciata* - Wt. 14.7g. Testis = ○
- ✓ 986 ♀ *Amphispiza belli*
~~Chamaea~~ - Wt. 16.9g. Ovary = ●
- ✓ 987 ♂ *Empidonax* sp. - Wt. 11.1g. Testes = ○
- ✓ 988 ♀ *Spinus psaltria* - Wt. 8.1g. Ovary = 5x4mm.
- ✓ 989 ♂ *Phalaenoptila nuttalli* - Wt. 44.3g. Testis = ○ Coll. D.H. Johnson

June 14, 1936

- ✓ 990 ♂ *Aphelocoma californica* - Wt. 93.4g. Testis = ○ Coll. D.H. Johnson
- 991 ♀ *Dipodomys elephantinus* - 324-193-4822 Wt. 74.5g. "
- 992 ♀ *Peromyscus truei* - 224-116-235-26 Wt. 36.6g. "
- 993 ♂ " " - 213-109-24-25 Wt. 29.5g. "
- 994 ♂ " " - 207-107-24-25 Wt. 27.8g. "
- ✓ 995 ♀ *Toxostoma redivivum* - Wt. 89.6g.
- ✓ 996 ♀ " " - Wt. 87.6g.
- ✓ 997 ♂ *Chamaea fasciata* - Wt. 15.1g. Testis = ○

Palmer
1936

Catalog

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 14, 1936

- ✓ 998 ♂ *Chamaea fasciata* - Wt. 14.2g. Testis = 0
✓ 999 ♀ *Amphispiza belli* - Wt. 16.3g. Ovary = ②
✓ 1000 ♂ " " - Wt. 19.3g. Testis = 0
✓ 1001 ? *Baileophus inornatus* - Wt. 16.5g

June 15, 1936

- 1002 ♂ *Scapanus latimanus* - 165-36-21-0 Wt. 66.4g.

1 mi. S New Idria, 3700 ft., San Benito Co., Calif.

June 15, 1936

- ✓ 1003 ♀ *Phalaenoptila nuttalli* - Wt. 49.3g. Largest ovum = ①
✓ 1004 ♀ *Pipilo fuscus* - Wt. 52.9g. " " = 0
✓ 1005 ♀ *Sayornis saya* - Wt. 17.8g. Ovary = ②
✓ 1006 ♂ *Pipilo maculatus* - Wt. 38.5g. Testis = 11x7mm.
SKEL.
ONLY 1007 ♂ *Calypte anna* - Wt. 3.9g. Testis = 0
SKULL ONLY
Pick Up. 1008 ? *Urocyon*

June 16, 1936

- ✓ 1009 ♂ *Sayornis saya* - Wt. 21.3g. Testis = ② Coll. D.H. Johnson
1010 ♂ *Dipodomys heermanni* - 287-172-43-16.5 Wt. 64.3g
1011 ♂ Nov. " " - 212-119-39-15 Wt. 29.2g.
1012 ♂ *Reithrodontomys megalotis* - 137-71-17-15 Wt. 9.8g.

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 16, 1936

- 1013 *Thamnophis ordinoides* -
✓ 1014 ♂ *Dryobates vilosus* - Wt. 64.8g.
✓ 1015 ♀ *Amphispiza belli* - Wt. 17.6g. Ovary = ②

Palmer
1936

Catalog


1/2 mi. SW New Idria, 3200 ft., San Benito Co., Calif.

June 17, 1936

1016 *Cnemidophorus*.

1/2 mi. SE summit San Benito Mtn., 4900 ft., San Benito Co., Calif.

June 17, 1936

✓ 1017 ♀ *Spizella atrogularis* - Wt. 11.2g. Ovary = 

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 18, 1936

1018 ♀ *Dipodomys elephantius* - 327-192-48-22 Wt. 86.4g. Coll. D. H. Johnson

1019 ♂ " " - 290-172-49-20 Wt. 70.7g. Coll. D. H. Johnson

1020 *Thamnophis ordinoides*

1021 *Sceloporus*

1022 "


1023 *Rana*

Skull only

Pick Up. 1024 *Neotoma* sp.

Summit San Benito Mtn., 5250 ft., San Benito Co., Calif.

June 18, 1936

✓ 1025 ♂ *Pipilo maculatus* - Wt. 37.7g. Testis = 

✓ 1026 ♂ *Spizella atrogularis* - Wt. 13.3g.

✓ 1027 ♂ *Thryomanes bewickii* - Wt. 10.0g. Testis = 0

✓ 1028 ? Ju. " " - Wt. 8.8g.

1029 ? Ju. *Junco oreganus* - Wt. 16.3g.

SKELETON

ONLY 1030 ♂ *Poliophtila caerulea* - Wt. 5.9g. Testis = 

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 18, 1936

✓ 1031 ♀ *Phalaenoptila nuttalli* Wt. 49.7g. Largest ovum = 

Palmer
1936

Catalog

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 19, 1936

- ✓ 1032 ? Ju. *Amphispiza belli* - Wt. 15.2g. (Toepost 16.5 x 21)
1033 ♀ *Scapanus latimanus* - 159-32-20-0 Wt. 52.4g.

Summit Santa Rita Pk., 5165 ft., San Benito Co., Calif.

June 20, 1936

- ✓ 1034 ♀ Ju. *Salpinctes obsoletus* - Wt. 14.3g.

1 mi. S summit Santa Rita Pk., 4500 ft., San Benito Co., Calif.

June 20, 1936

1035 *Rana boylei*

1036 " "

1037 " "

1038 *Sceloporus*.

1039 ♂ Ju. *Chamaea fasciata* - Wt. 13.9g. Testis = 0

1040 ♂ *Pipilo maculatus* - Wt. 37.2g. Testis = 0

✓ 1041 ♀ " " - Wt. 33.6g. Ovary 7 x 3 mm.

~~1042 *Spizella atrogularis* - Wt. 11.4g.~~

June 21, 1936

✓ 1043 ♂ *Progne subis* - Wt. 51.8g. Testis = 13 x 9 mm

Skeleton
only.

✓ 1044 ♂ " " - Wt. 47.4g. Testis = 0

1 mi. SE summit San Benito Mtn., 4400 ft., San Benito Co., Calif.

June 21, 1936

1045 *Sceloporus*

✓ 1046 ♂ Ju. *Sitta carolinensis* - Wt. Testis = 0

Skeleton
only.

✓ 1047 ♂ *Myiarchus cinerascens* - Wt. 26.0g. Testis = 0

Palmer
1936

Catalog.

2 mi. NNE New Idria, 1900 ft., San Benito Co., Calif.

June 22, 1936

✓ 1048 ♂ *Otus asio* - Wt. 120g. Testis = ○ Coll. D.H. Johnson

✓ 1049 ♂ *Phalaenoptila nuttalli* - Wt. 38.5g. Testis = ○ "

June 23, 1936

1050 *Thamnophis ordinoides* -

SKULL ONLY

Pick Up. 1051 *Ursus tulaeensis* -

1052 *Cnemidophorus tesselatus*

✓ 1053 ? *Accipiter cooperi* - Wt. 447g.

✓ 1054 ? *Sayornis saya* - Wt. 18.1g.

June 24, 1936

✓ 1055 ♂ *Catherpes mexicanus* - Wt. 11.7g. Testis = ○

✓ 1056 ♀ " " - Wt. 10.2g. Ovary = ⊙

✓ 1057 ? *Baeolophus inornatus* - Wt. 15.8g.

June 25, 1936

✓ 1058 ♂ *Aphelocoma californica* - Wt. 80.5g. Testis = ○ Coll. D.H. Johnson

✓ 1059 ? *Sitta carolinensis* - Wt. 14.5g.

SKELTON ONLY 1060 ♂ *Calypte anna* - Wt. 4.1g.

✓ 1061 ♀ *Baeolophus inornatus* - Wt. 14.3g.

✓ 1062 ♂ *Sayornis saya* - Wt. 20.5g. Testis = ○

✓ 1063 ♀ *Aphelocoma californica* - Wt. 80.6g. Ovary = ⊙

✓ 1064 ♂ *Pipilo fuscus* - Wt. 49.2g. Testis = ○

1065 Lizard.

June 26, 1936

1066 ♀ *Onychomys torridus* - 125-45-20-17 Wt. 11.0g.

1067 ♂ *Perognathus californicus* - 200-116-25-13 Wt. 22.8g.

1068 ♂ *Peromyscus maniculatus* - 170-72-20-20. Wt. 18.9g.

Palmer
1936

Catalog

Zoni, NNE New Idria, 1900 ft., San Benito Co., Calif.

June 26, 1936

- 1069 ♂ *Peromyscus maniculatus* - 145-65-21-16 Wt. 14.5g.
1070 ♀ " " - 164-74-20-19 Wt. 16.3g.
1071 ♀ *Dipodomys hermanni* - 302-186-43-15 Wt. 68.1g.
1072 ♀ " " - 305-185-43-16 Wt. 78.6g.
1073 ♀ " " - 302-184-42.5-15 Wt. 62.9g.
1074 ♀ " " - 324-199-49-16 Wt. 70.6g.
1075 ♂ " " - 310-185-43-16 Wt. 68.2g.
1076 ♀ " " - 312-190-44-15 Wt. 75.1g.
1077 ♀ " " - 300-180-42-15 Wt. 65.4g.

June 27, 1936

- 1078 ♀ *Onychomys torridus* - 144-52-21-19 Wt. 21.0g.
1079 ♂ *Perognathus californicus* - 208-112-28-13 Wt. 30.4g.
1080 ♀ " " - 206-115-26.5-13 Wt. 27.1g.
1081 ♀ *Dipodomys hermanni* - 300-180-43-16 Wt. 65.3g.
1082 ♂ " " - 322-194-46-17 Wt. 76.4g.
1083 ♂ " " - 306-186-44-17 Wt. 80.1g.
1084 ♀ " " - 321-195-46-17 Wt. 71.5g.
1085 ♂ " " - 305-190-45-16 Wt. 70.1g.
1086 ♂ " " - 307-184-44-16 Wt. 78.7g.
1087 ♀ " " - 302-181-44-18 Wt. 72.7g.
1088 ♀ " " - 300-175-45-17 Wt. 72.3g.
1089 ♀ " " - 313-189-43-17 Wt. 71.3g.
1090 ♂ *Aphelocoma californica* - Wt. 89.4g. Testis = 0 ^{Coll. by} E. T. Johnson
1091 ♂ *Sayornis saya* - Wt. 23.8g. Testis = 0
1092 ♂ *Catherpes mexicanus* - Wt. 10.1g.

Palmer
1936

Catalog

W. Dixon Spring, 1900 ft., 8 mi. N. New Idria, San Benito Co., Calif.

June 28, 1936

- ✓ 1093 ♂ *Otocoris alpestris* - Wt. 28.5 Testis = 0
✓ 1094 ♀ " " - Wt. 24.5 Ovary = 0
✓ 1095 ♂ " " - Wt. 28.8g Testis = 0
✓ 1096 ♂ " " - Wt. 25.3g Testis = 0
✓ 1097 ♀ " " - Wt. 24.7g Ovary = 0
✓ 1098 ♂ " " - Wt. 26.4g Testis = 0
✓ 1099 ♂ " " - Wt. 24.0g Testis = 0
✓ 1100 ♂ " " - Wt. 29.0g Testis = 0

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

June 28, 1936

- 1101 ♀? *Pipistrellus hesperis* - 74-30-6-12 Tr. 6 Wt. 5.3g.
✓ 1102 ♀ *Otus asio* - Wt. 164.2g. Largest ovum = 0

June 29, 1936

- 1103 ♀ *Pipistrellus hesperis* - 75-30-7-13 Tr. 6.5 Wt. 5.3g.
✓ 1104 ♀ *Thyomanes bewicki* - Wt. 9.1
✓ 1105 ♂ Jv. " " - Wt. 9.5 Testis = 0

June 30, 1936

Coll. by Dr. Johnson




- 1106 ♀ *Dipodomys heermanni* - 300-176-43-16 Wt. 73.1g. "
1107 ♀ " " - 291-172-45-16 Wt. 67.1g. "
1108 ♂ " " - 291-172-42-16 Wt. 73.9g. "
1109 ♀ " " - 290-167-42.5-16 Wt. 68.6g. "
1110 ♂ " " - 286-168-43-16 Wt. 63.2g. "
1111 ♀ " " - 290-171-43-16.5 Wt. 65.7g. "
1112 *Arizona elegans* -
✓ 1113 ♂ *Otocoris alpestris* - Wt. 29.3g. Testis = 0

Palmer
1936

Catalog

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

June 30, 1936

- ✓ 1114 ♂ *Otocoris alpestris* - Wt. 28.9g. Testis = ○
✓ 1115 ♂ " " - Wt. 27.7g. Testis = ○
✓ 1116 ♂ " " - Wt. 26.1g. Testis = ○
✓ 1117 ♂ " " - Wt. 29.3g. Testis = ○
✓ 1118 ♀ " " - Wt. 25.5g. Ovary = 
✓ 1119 ♀ " " - Wt. 25.2g. Ovary = 
✓ 1120 ♀ " " - Wt. 23.8g. Ovary = 

July 1, 1936

- ✓ 1121 ♂ *Otocoris alpestris* - Wt. 28.6g. Testis = ○
✓ 1122 ♂ " " - Wt. 28.3g. Testis = ○
✓ 1123 ♂ *Tyrannus verticalis* - Wt. 39.4g. Testis = ○
✓ 1124 ♀ " " - Wt. 33.1g. Largest ovum = ○
SKELETON ONLY 1125 ♂ *Dryobates mitralli* - Wt. 30.0g.
SKELETON ONLY 1126 ♀ *Sayornis nigricans* - Wt. 16.3g. Coll. by D.H. Johnson

SKELETON


ONLY 1127 ♂ *Sayornis nigricans*

- Wt. 17.5g. Testis = ○

SKELETON

ONLY 1128 ♂ *Chordeiles acutipennis*

- Wt. 58.0g. Testis = ○

✓ 1129 ♀ *Otocoris alpestris* - Wt. 28.5g. Ovary = 

✓ 1130 ♀? " " - Wt. 25.6g.

✓ 1131 ♀ " " - Wt. 25.5g. Ovary = 

✓ 1132 ♀ " " - Wt. 28.3g. Ovary = 

✓ 1133 ♀ " " - Wt. 23.7g. Ovary = 

✓ 1134 ♀ " " - Wt. 26.0g. Ovary = 

✓ 1135 ♀ " " - Wt. 26.3g. Ovary = 

SKEL

ONLY 1136 ♂ " "

- Wt. 27.1g.

Palmer
1936

Catalog

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

July 2, 1936

SKEL.

ONLY 1137 ♂ *Otocoris alpestris* - Wt. 28.4g. Testis = 0

July 3, 1936

✓ 1138 ♀ *Sayornis saya* - Wt. 19.0g. Ovary = 0

✓ 1139 ♂ *Otocoris alpestris* - Wt. 27.8g. Testis = 0

✓ 1140 ♀? " " - Wt. 22.6g

✓ 1141 ♀? " " - Wt. 26.4g.

✓ 1142 ♀? " " - Wt. 24.3g.

✓ 1143 ♀ " " - Wt. 27.0g. Ovary = 0

✓ 1144 ♀ " " - Wt. 23.8g. Ovary = 0

✓ 1145 ♂ *Geococcyx californianus* - Wt. 316g. Testis = 0

✓ 1146 ♂ *Otus asio* - Wt. 133.8g. Testis = 0 Col. D. H. Johnson

July 4, 1936

✓ 1147 ♂ *Thryomanes bewickii* - Wt. 9.5g. Testis = 0

✓ 1148 ♂ *Euphagus cyanocephalus* - Wt. 10.4g. Testis = 0

July 5, 1936

1149 ♀ *Onychomys torridus* - 152-52-22-18 Wt. 25.5g.

1150 ♀ " " - 146-50-21-16 Wt. 20.6g.

1151 ♀ " " - 155-55-21-18 Wt. 25.3g.

1152 ♀ " " - 154-55-21-18 Wt. 25.8g.

1153 ♀ *Peromyscus maniculatus* - 162-76-20-16 Wt. 15.0g

1154 ♂ " " - 153-70-20.5-16 Wt. 15.8g.

1155 ♂ " " - 150-71-20-16 Wt. 14.2g

1156 ♂ *Dipodomys hermanni* - 295-174-42-16.5 Wt. 73.0g.

1157 ♂ " " - 297-178-42-16 Wt. 80.0g.

1158 ♀ " " - 293-174-42-16 Wt. 68.4g

Palmer
1936

Catalog

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

July 5, 1936

1159 ♀ *Dipodomys heermanni* - 294-175-42-16. Wt. 67.4g.

1160 ♀ " " - 300-179-43-17 Wt. 75.0g.

SKELETON
ONLY 1161

♂ *Chordeiles acutipennis*. Wt. 58.1g. Testis = ○

SKELETON
ONLY 1162

♀ " " Wt. 53.5g. Largest ovum = ○

Panoche Cr., 1000 ft., 4 mi. E Panoche, San Benito Co., Calif.

July 5, 1936

✓ 1163 ♂ *Agelaius phoeniceus* - Wt. - 58.0g. Testis = ○

✓ 1164 ♀ " " - Wt. - 36.8g. Largest ovum = ○

✓ 1165 ♂ *Sayornis saya* - Wt. - 23.2g. Testis = ○

6 mi. E Panoche [San Benito Co.], 1400 ft., Fresno Co., Calif.

July 6, 1936

1166 ♂ *Onychomys torridus* - 146-53-21-18 Wt. 21.3g.

1167 ♀ *Dipodomys heermanni* - 312-192-42-16 Wt. 68.2g.

1168 ♀ " " - 301-182-42-17 Wt. 70.6g.

1169 ♂ " " - 297-175-41-15.5 Wt. 65.6g.

1170 ♂ " " - 298-176-43-16 Wt. 70.9g.

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

July 6, 1936

Coll. by D. H. Johnson

1171 ♂ *Aphelocoma californica* - Wt. 81.3g. Testis = ○

Panoche Cr., 1000 ft., 4 mi. E Panoche, San Benito Co., Calif.

July 7, 1936

✓ 1172 ♀ *Geothlypis trichas* - Wt. 7.6g.

✓ 1173? Ju. " " - Wt. 10.2g.

✓ 1174 ♀ *Agelaius phoeniceus* - Wt. 38.8g. Largest ovum = ○

SKEL.


ONLY 1175 ♀ *Calypso anna* - Wt. 4.0g. Ovary = ○

Palmer.
1936

Catalog

Panoche Cr., 1000 ft., 4 mi. E Panoche, San Benito Co., Calif.

July 7, 1936

SKEL.
ONLY 1176 ♀ *Calypto anna*? - Wt. 3.5g. Ovary = 

July 8, 1936

SKULL
ONLY 1177 *Sorex ornatus* - no measurements

1178 ♀ *Microtus californicus* - 157-50-22-15 Wt. 35.2g.

1179 ♂ " " - 201-62-25-17 Wt. 73.9g.

1180 ♀ " " - 173-52-24-16 Wt. 42.0g.

July 9, 1936

1181 ♀ *Microtus californicus* - 173-52-22-17 Wt. 51.3g.

1182 ♂ *Reithrodontomys megalotis* - 139-73-17-15 Wt. 7.3g.

1183 ♂ *Peromyscus maniculatus* - 155-70-21-17 Wt. 17.0g.

1184 ♀ " " - 142-61-20.5-16.5 Wt. 15.4g.

✓ 1185 ♀ *Agelaius phoeniceus* - Wt. 38.0g. Ovary = 

✓ 1186 ♂ *Sayornis saya* - Wt. 23.8g. Testis = 

✓ 1187 ♀ " " - Wt. 21.0g.

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

July 9, 1936

✓ 1188 ♂ *Tyrannus vociferans* - Wt. 56.9g. Testis = 

✓ 1189 ♂ " " - Wt. 50.5g. Testis = 

✓ 1190 ♂ *Myiarchus cinerascens* - Wt. 28.8g. Testis = 

✓ 1191 ♂ *Tyrannus verticalis*. - Wt. 38.5g. Testis = 

3 mi. NW Panoche, 1300 ft., San Benito Co., Calif.

July 10, 1936

✓ 1192 ♂ *Sporotyto cunicularia* - Wt. 147.6g.

Palmer
1936

Catalog

5 3/4 mi. N W Panoche, 1500 ft., San Benito Co., Calif.

July 10, 1936

1193 ♀ *Ammodramophilus nelsoni* - 238-69-39-11 - Wt. 156.7g

1194 ♀ " " - 235-65-40-11.5 Wt. 154.3g

Panoche Cr., 1200 ft., 2 mi. S Panoche, San Benito Co., Calif.

July 11, 1936

✓ 1195 ♂ *Otus asio* - Wt. 151.5g. Testis =
Coll. by J. Grinnell

✓ 1196 ♂ *Falco sparverius* - Wt. 112.7g. Testis = ○
Coll. by J. Grinnell

✓ 1197 ♀ *Calypte anna* - Wt. 3.3g.
Coll. by J. Linsdale

✓ 1198 *Sayornis saya* - Wt. 23.7.

✓ 1199 ♂ *Falco sparverius* - Wt. 121.3g.

✓ 1200 ♀ *Sayornis nigricans* - Wt. 18.1g.

✓ 1201 ♀ *Stelgidopteryx ruficollis* - Wt. 14.3g.

✓ 1202 ♀ *Calypte anna* - Wt. 4.3g.
Coll. by J. Linsdale

✓ 1203 ♂ *Otus asio* - Wt. 131.2g. Testis = ○
ad.

July 12, 1936

✓ 1204 ♂ *Tyto alba* - Wt. 345g. Testis = ○
Coll. by J. Linsdale

✓ 1205 ♂ *Bubo virginianus* - Wt. 1009g. Testis = ○
Coll. by J. Grinnell

✓ 1206 ♂ *Tyrannus vociferans* - Wt. 46.3g.
Coll. by J. Linsdale

July 13, 1936

✓ 1207 ♀ *Buteo swainsoni* - Wt. 924g. Largest ovum = ○
Coll. by J. Grinnell

3 1/2 mi. W Hernandez, 3000 ft., San Benito Co., Calif.

July 13, 1936

✓ 1208 ♂ *Otus asio* - Wt. 143.3g. Testis = ○
Coll. by D. N. Johnson

✓ 1209 ♂ " " - Wt. 140.7g. Testis = ○

0

0

0

0

0

0

Palmer
1936

Catalog

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

July 14, 1936

1210 ♀ *Myotis volans* - 90-42-8-14 Tr. 8.5. Wt. 4.7g.

July 16, 1936

✓ 1211 ♂ Ju. *Toxostoma redivivum* - Wt. 89.2g. Testis = 0

✓ 1212 ♂ Ju. " " - Wt. 70.8g. Testis = 0

✓ 1213 ♀ Ju. *Pipilo fuscus* - Wt. 46.4g.

✓ 1214 ♀ Ju. " *maculatus* - Wt. 41.0g.

✓ 1215 ♀ Ju. *Chamaea fasciata* - Wt. 12.8g.

✓ 1216 ♂ Ju. *Aphelocoma californica* - Wt. 81.9g. Testis = 0

✓ 1217 ♀ Ju. *Junco oreganus* - Wt. 17.9g.

✓ 1218 ♂ ad. " " - Wt. 16.4g. Testis = 0

✓ 1219 ♂ Ju. *Pipilo maculatus* - Wt. 42.6g. Testis = 0

SKELETON

✓ ONLY 1220 ♂ ad. *Dryobates nuttalli* - Wt. 38.4g. Testis = 0

July 17, 1936

1221 *Phrynosoma* - Wt. 11.1g.

✓ 1222 ♂ Ju. *Pipilo fuscus* - Wt. 45.1g.

✓ 1223 ? Ju. " *maculatus* - Wt. 40.6g.

✓ 1224 ♂ ad. *Amphispiza belli* - Wt. 17.7g. Testis = 0

✓ 1225 ♀ ? ad. " " - Wt. 17.7g.

✓ 1226 ♀ Ju. Unknown sparrow - Wt. 14.7g.

✓ 1227 ♂ Ju. *Thryomanes bewickii* - Wt. 8.8g.

✓ 1228 ? Ju. " " - Wt. 8.5g.

✓ 1229 ? Ju. *Toxostoma redivivum* - Wt. 90.2g.

✓ 1230 ♀ ? Ju. " " - Wt. 80.6g.

✓ 1231 ♂ ad. *Phalaenoptilus nuttalli* - Wt. 39.8g. Testis = 0

Coll. by D. H. Johnson

Coll. by D. H. Johnson

Skull double.

Palmer
1936

Catalog

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

July 18, 1936

- ✓ 1232 ♂ ad. *Amphispiza belli* - Wt. 15.5 Testis = 0
- ✓ 1233 ♀ juv. *Baeolophus inornatus* - Wt. 14.8g.
- ✓ 1234 ♂ juv. *Junco oreganus* - Wt. 18.2g. Testis = 0
- ✓ 1235 ♀ juv. " " - Wt. 16.7g.
- ✓ 1236 ♀ ^{ad.} *Spizella passerina* - Wt. 11.7g.
- ✓ 1237 ♂ juv. " " ? - Wt. 11.8g. Testis = 0
- ✓ 1238 ♂ juv. " " ? - Wt. 11.0g. Testis = 0
- ✓ 1239 ♂ juv. *Sitta carolinensis* - Wt. 17.2g. Testis = 0
- ✓ 1240 ? ad *Dryobates mitralli* - Wt. 34.2g.

July 19, 1936

- ✓ 1241 ♀ ad. *Junco oreganus* - Wt. 17.1g.
- ✓ 1242 ♂ juv. " " - Wt. 15.3g. Testis = 0
- ✓ 1243 ♀ ad *Amphispiza belli* - Wt. 16.4g.
- ✓ 1244 ♂ juv. " " - Wt. 17.0g. Testis = 0
- ✓ 1245 ♂ ad. *Dryobates villosus* - Wt. 62.7g. Testis = 0 Coll. by D. N. Johnson
- ✓ 1246 ♀ juv. *Sitta carolinensis* - Wt. 17.3g.
- ✓ 1247 ♂ juv. *Thryomanes bewickii* - Wt. 10.0g. Testis = 0
- ✓ 1248 ♂ juv. *Baeolophus inornatus* - Wt. 16.7g. Testis = 0
- ✓ 1249 ♀ juv. *Dendroica nigrescens* - Wt. 8.0g.

July 20, 1936

- ✓ 1250 ♀ ad. *Pipilo fuscus* - Wt. 50.7g.
- ✓ 1251 ? juv. " " - Wt. 47.6g.
- ✓ 1252 ? ad. *Myiochanes richardsoni* - Wt. 12.6g
- ✓ 1253 ♀ ad. " " - Wt. 11.9g
- ✓ 1254 ♂ ad. " " - Wt. 13.7g. Testis = 0

SKELETON

ONLY 1254 ♂ ad

Palmer
1936

Catalog

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

SKELETON

ONLY 1255 ♂ Ju. *Myiochanes richardsoni* - Wt. 12.2g. Testis = 0

July 20, 1936

July 21, 1936

1256 *Thamnophis ordinoides* - ~~testis~~

✓ 1257 ♀ Ju. *Amphispiza belli* - Wt. 15.6g.

✓ 1258 ♀ Ju. *Sayornis nigricans* - Wt. 16.8g.

✓ 1259 ♀ Ju. *Junco oreganus* - Wt. 17.9g.

✓ 1260 ♂ Ju. " " - Wt. 16.4g.

✓ 1261 ♀ Ju. *Hedymeles melanocephalus* - Wt. 41.4g.

✓ 1262 ♀ Ju. " " - Wt. 35.6g.

✓ 1263 ♂ ad. *Balanospiza forficitoria* - Wt. 77.1g. Testis = 0

✓ 1264 ♀ Ju. *Toxostoma redivivum* - Wt. 82.1g.

✓ 1265 ♂ Ju. *Aphelocoma californica* - Wt. 82.4g. Testis = 0
Coll. by D. N. Johnson

✓ 1266 ♂ Ju. *Cyanocitta stelleri* - Wt. 120.8g. Testis = 0

✓ 1267 ♀ Ju. *Thryomanes bewicki* - Wt. 8.9g.

SKELETON

ONLY 1268 ♀ Ju. *Sitta carolinensis* - Wt. 16.0g.

July 22, 1936

Coll. by D. N. Johnson

✓ 1269 ? Ju. *Toxostoma redivivum* - Wt. 81.1g.

✓ 1270 ♀ Ju. " " - Wt. 84.2g.

Coll. by D. N. Johnson

✓ 1271 ♂ ? Ju. " " - Wt. 83.2g.

Coll. by D. N. Johnson

✓ 1272 ♂ Ju. " " - Wt. 83.9g. Testis = 0

✓ 1273 ? Ju. *Junco oreganus* - Wt. 17.5g.

✓ 1274 ♂ Ju. " " - Wt. 15.6g.

✓ 1275 ♂ Ju. " " - Wt. 16.2g. Testis = 0

✓ 1276 ♀ Ju. " " - Wt. 14.7g.

✓ 1277 ♀ Ju. *Hedymeles melanocephalus* - Wt. 36.9g.

Palmer
1936

Catalog

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

July 22, 1936

- ✓ 1278 ♀? Ju. *Toxostoma redivivum* - Wt. 88.6g. Coll. by D. N. Johnson
✓ 1279 ♀? Ju. " " - Wt. 94.1g. Coll. by D. N. Johnson

1280 *Bufo boreas*

July 23, 1936

- ✓ 1281 ♂ ad. *Carpodacus mexicanus* - Wt. 21.6g. Testis = 0
✓ 1282 ♂ Ju. *Baeolophus inornatus* - Wt. 17.1g. Testis = 0
✓ 1283 ♀ Ju. " " - Wt. 14.3g.
✓ 1284 ♀ ad. " " - Wt. 14.2g.
✓ 1285 ♂ ad. *Spizella passerina* - Wt. 11.2g. Testis = 0
✓ 1286 ♀ Ju. *Spinus psaltria* - Wt. 9.3g.
✓ 1287 ♀? ad. *Sayornis nigricans* - Wt. 21.3g.
✓ 1288 ♀ Ju. *Sitta carolinensis* - Wt. 15.6g.
✓ 1289 ♂ Ju. *Pipilo fuscus* - Wt. 48.3g. Testis = 0
✓ 1290 ♀ ad. *Colaptes cafer* - Wt. 117.0g.
✓ 1291 ♂ Ju. *Spizella passerina*? - Wt. 11.6g. Testis = 0
SKELETON ONLY 1292 ♂ Ju. *Junco oreganus* - Wt. 16.6g.

July 24, 1936

- ✓ 1293 ♂ Ju. *Pipilo fuscus* - Wt. 47.3g.
✓ 1294 ♂ Ju. " " - Wt. 51.5g. Testis = 0
✓ 1295 ♂ Ju. *Chondestes grammacus* - Wt. 24.7g.
✓ 1296 ♀ Ju. *Amphispiza belli* - Wt. 17.6g.
✓ 1297 ♀ Ju. " " - Wt. 16.1g.
✓ 1298 ♂ Ju. " " - Wt. 16.3g. Testis = 0
✓ 1299 ♂ ad. *Sitta carolinensis* - Wt. 16.7g. Testis = 0
✓ 1300 ♂ ad. *Baeolophus inornatus* - Wt. 17.5g. Testis = 0

Palmer
1936

Catalog

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

July 24, 1936

✓ 1301 ♀ J. *Cryptoglaux acadica*? - Wt. 60.3g. Skull =



July 25, 1936

✓ 1302 ♀ J. *Asyndesmus lewis* - Wt. 83.1g. Skull nearly completely double.

✓ 1303 ♀ J. " " - Wt. 96.2g. Skull nearly completely double.

✓ 1304 ♂ ad. *Balanosphaera formicivora* - Wt. 73.1g. Testis = 0

✓ 1305 ♀ J. *Pipilo fuscus* - Wt. 45.0g.

✓ 1306 ♀ ad. *Carpodacus mexicanus* - Wt. 20.6g.

✓ 1307 ♂ J. *Sitta carolinensis* - Wt. 16.9g. Testis = 0

✓ 1308 ♂ J. *Idymelis melanocapillus* - Wt. 41.1g. Testis = 0 Pick Up.

✓ 1309 ♀ J. *Baeolophus inornatus* - Wt. 16.0g.

July 26, 1936

✓ 1310 ♀ J. *Junco oreganus* - Wt. 17.1g.

✓ 1311 ♂ J. *Baeolophus inornatus* - Wt. 15.0g. Testis = 0

✓ 1312 ♀ ad. *Amphispiza belli* - Wt. 15.4g.

✓ 1313 " " - Wt. 16.4g.

✓ 1314 ♂ J. " " - Wt. 16.5g.

✓ 1315 ♀ ad. *Sitta carolinensis* - Wt. 17.5g.

✓ 1316 ♂ J. " " - Wt. 15.8g.

✓ 1317 ♂ ad. *Zenaidura macroura* - Wt. 131.1g. Testis = 16 x 7 mm.

SKEL.

✓ ONLY 1318 *Myiochanes richardsoni* - Wt. 12.5g.

July 27, 1936

✓ 1319 ♂ ad. *Amphispiza belli*. - Wt. 14.3g.

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Palmer
1936

Catalog

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

July 29, 1936

- ✓ 1320 ♀ ad. *Sayornis saya* - Wt. 20.7g.
- ✓ 1321 ♂ ad. " " - Wt. 23.2g. Testis = 0
- ✓ 1322 ♂ ad. *Chondestes grammacus* - Wt. 30.5g. Testis = 0
- ✓ 1323 ♂ juv. *Aphelocoma californica* - Wt. 90.0g. Testis = 0
- ✓ 1324 ♂ ad. *Sayornis nigricans* - Wt. 20.0g. Testis = 0
- ✓ 1325 ♀ juv. *Baeolophus inornatus* - Wt. 16.5g.
- ✓ 1326 ♀ ad. " " - Wt. 16.7g.
- ✓ 1327 ♂ juv. " " - Wt. 17.5g. Testis = 0
- ✓ 1328 ♀ juv. *Sitta carolinensis* - Wt. 15.7g.

July 30, 1936

- ✓ 1329 ♀ ad. *Tyrannus vociferans* - Wt. 48.7g.
- ✓ 1330 ♀ juv. *Pipilo fuscus* - Wt. 53.4g.
- ✓ 1331 ♀ ad. *Sayornis nigricans* - Wt. 16.8g.
- ✓ 1332 ♂ ad. *Dryobates nuttalli* - Wt. 33.7g. Testis = 0
- ✓ 1333 ♂ juv. " " - Wt. 37.6g. Testis = 0
- ✓ 1334 ♂ ad. *Sayornis nigricans* - Wt. 20.2g. Testis = 0
- ✓ 1335 ♀ ad. *Chondestes grammacus* - Wt. 32.3g.
- ✓ 1336 ♂ juv. *Salpinctes obsoletus* - Wt. 16.4g. Testis = 0

July 31, 1936

- ✓ 1337 ♀ ad. *Sayornis saya* - Wt. 20.5g.
- ✓ 1338 ♀ ad. " " - Wt. 19.0g.
- ✓ 1339 ♀ juv. " *nigricans* - Wt. 16.5g.
- ✓ 1340 ♀ ad. *Baeolophus inornatus* - Wt. 16.0g.
- ✓ 1341 ♀ ad. *Chondestes grammacus* - Wt. 27.1g.
- ✓ 1342 ♀ juv. *Oxyechus vociferans* - Wt.

Palmer
1936

Catalog

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

July 31, 1936

- ✓ 1343 ♀ ad. *Pica nuttalli*. - Wt. 132.7g.
✓ 1344 ♀ ad. " " - Wt. 157.2g.

Aug. 1, 1936

- ✓ 1345 ♂ ad. *Balanosphyra formicivora* - Wt. 78.0g. Testis = 0
✓ 1346 ♀ ad. " " - Wt. 92.8g. ^{largest} ovum = ○
✓ 1347 ♀ ad. *Aphelocoma californica* - Wt. 87.5g.
✓ 1348 ♂ ad. *Sitta carolinensis* - Wt. 18.0g. Testis = 0
✓ 1349 ♂ juv. *Baeolophus inornatus* - Wt. 13.9g. Testis = 0
✓ 1350 ♀ juv. *Myiochanes richardsoni* - Wt. 11.4g.
✓ 1351 ♂ juv. *Calypso anna* - Wt. 4.0g. Testis = 0
✓ 1352 ♂ ad. *Carpodacus mexicanus* - Wt. 19.1g. Testis = 0
✓ 1353 ? juv. " " - Wt. 17.5g.
✓ 1354 ♂ juv. *Butorides virescens* - Wt. 260.2g. Testis = 0 ^{Coll. by D. W. Johnson}

San Benito, 1150 ft., San Benito Co., Calif.

Aug 2, 1936

- ✓ 1355 ♀ ad. *Mimus polyglottos* - Wt. 39.4g. Breeding.
✓ 1356 ? juv. *Vermivora celata* - Wt. 7.6g.

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

Aug. 2, 1936

- ✓ 1357 ♂ juv. *Euphagus cyanocephalus* - Wt. 65.9g. Testis = 0
✓ 1358 ♂ juv. " " - Wt. 71.5g. Testis = 0
✓ 1359 ♂ juv. *Baeolophus inornatus* - Wt. 15.4g. Testis = 0
✓ 1360 ♂ ad. " " - Wt. 16.9g. Testis = 0
✓ 1361 ♂ juv. *Vermivora celata* - Wt. 8.2g.
✓ 1362 ♀ juv. *Thryomanes bewickii* - Wt. 9.2g.

Palmer
1936

Catalog

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

Aug. 2, 1936

- ✓ 1363 ♂ Ju. *Aphelocoma californica* - Wt. 90.2g. Testis = ○
✓ 1364 ♂ Ju. *Pipilo fuscus* - Wt. 54.3g. Testis = ○
✓ 1365 ♂ ad. " " - Wt. 55.6g. Testis = ○

Aug. 3, 1936

- ✓ 1366 ♂ ad. *Carpodacus mexicanus* - Wt. 21.2g. Testis = ○
✓ 1367 ♂ ad. *Sayornis nigricans* - Wt. 16.1g. Testis = ○
✓ 1368 ? Ju. *Pipilo fuscus* - Wt. 52.4g.
✓ 1369 ♂ ad. *Euphagus cyanocephalus* - Wt. 66.1g. Testis = ○
✓ 1370 ♂ ad. " " - Wt. 66.0g. Testis = ○
✓ 1371 ♀ ad. *Balanosphyra formicivora* - Wt. 69.2g. ^{Largest} Ovary = ○
✓ 1372 ♂ Ju. *Aphelocoma californica* - Wt. 86.0g. Testis = ○
✓ 1373 ♀ Ju. *Colaptes cafer* - Wt. 149.3g.
✓ 1374 ♂ ad. *Pica nuttalli* - Wt. 182.9g. Testis = ○
✓ 1375 ♀ ad. *Otus asio* - Wt. 136.1g. _{skull completely double}

Aug. 4, 1936

- ✓ 1376 ♀ Ju. *Baeolophus inornatus* - Wt. 16.1g.
SKELETON ONLY 1377 ♂ ad. *Sayornis nigricans* - Wt. 17.4g. Testis = ○
✓ 1378 ♂ ad. " *saya* - Wt. 22.4g. Testis = ○
✓ 1379 ♂ ad. *Hedymeles melanocephalus* - Wt. 32.6g. Testis = ○
✓ 1380 ♂ ad. *Lanius ludovicianus* - Wt. 50.3g.
✓ 1381 ♀ ad. " " - Wt. 46.7g.
SKELETON ONLY 1382 ♂ ad. *Toxostoma redivivum* - Wt. 92.9g. Testis = ○
✓ 1383 ♀ Ju. " " - Wt. 77.9g.
✓ 1384 ♂ Ju. *Aphelocoma californica* - Wt. 105.3g. Testis = ○ _{skull nearly completely double}
✓ 1385 ♂ ad. *Pica nuttalli* - Wt. 190.3g. Testis = ○

111.

112.

113.

114.

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1936

Catalog

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

Aug. 4, 1936

✓ 1386 ♀ ad. *Pica nuttalli*. - Wt. 173.5g.

1387 *Sceloporus*

Aug. 5, 1936

✓ 1388 ♂ ad. *Sitta carolinensis* - Wt. 17.2g.

✓ 1389 ♀ Ju. " " - Wt. 15.6g.

✓ 1390 ♂ Ju. *Baeolophus inornatus* - Wt. 16.6g. Testis = 0

✓ 1391 ♀ ad. *Carpodacus mexicanus* - Wt. 19.7g.

✓ 1392 ♀ ad. *Chondestes grammacus* - Wt. 27.6g.

✓ 1393 ♀ ad. *Lanius ludovicianus* - Wt. 49.3g.

✓ 1394 ♂ Ju. *Dryobates villosus* - Wt. 58.4g. Coll. by D. H. Johnson

SKELETON

ONLY 1395 ♂ ad. *Carpodacus mexicanus* - Wt. 22.0g. Testis = 0

✓ 1396 ♂ ad. *Sturnella neglecta* - Wt. 115.5g. Testis = 0 Coll. by D. H. Johnson

Aug. 6, 1936

✓ 1397 ? Ju. *Spinus psaltria* - Wt. 8.7g.

✓ 1398 ♂ Ju. *Helgidopteryx ruficollis* - Wt. 12.0g. Testis = 0

✓ 1399 ♂ Ju. *Sitta carolinensis* - Wt. 16.0g. Testis = 0

✓ 1400 ♂ Ju. *Dryobates nuttalli*. - Wt. 31.7g.

✓ 1401 ♂ ad. *Euphagus cyanocephalus* - Wt. 67.8g. Testis = 0

✓ 1402 ♂ ad. *Sturnella neglecta* - Wt. 114.7g. Testis = 0

✓ 1403 ♂ ad. *Lophortyx californicus* - Wt. 186.1g. Testis = 0

Aug. 7, 1936

✓ 1404 ♂ Ju. *Ardea herodias* - Wt. 2039g. Testis = 0 Coll. by D. H. Johnson

✓ 1405 ♂ Ju. *Aphelocoma californica* - Wt. 94.2g. Testis = 0 Aug. 8, 1936

✓ 1406 ♂ Ju. *Sitta carolinensis* - Wt. 16.1g. Testis = 0

✓ 1407 ♀ ad. *Psaltirparius minimus* - Wt. 4.4g.



Palmer
1936

Catalog

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

Aug. 8, 1936

- ✓ 1408 ♂ ad. *Sayornis saya* - Wt. 22.1g. Testis = 0
✓ 1409 ♂ ad. *Balanosphyra formicivora* - Wt. 75.8g. Testis = 0
✓ 1410 ♂ juv. *Thryomanes bewickii* - Wt. 9.8g. Testis = 0

Aug. 9, 1936

- ✓ 1411 ♀ juv. *Sialia mexicana* - Wt. 24.8g.
SKEL.
ONLY 1412 ♂ juv. *Lanius ludovicianus* - Wt. 42.8g. Testis = 0
✓ 1413 ♀ ad. *Pipilo fuscus* - Wt. 56.0g.
✓ 1414 ♂ juv. *Aphelocoma californica* - Wt. 78.5g.
✓ 1415 ♂ juv. *Megascops alcyon* - Wt. 140.6g. Testis = 0 ^{Skull nearly completely double}
✓ 1416 ♀ ad. *Pica nuttalli* - Wt. 122.5g.
SKEL.
ONLY 1417 ♀ ad. *Dryobates nuttalli* - Wt. 33.2g.
1418 *Thamnophis sirtalis*.

Palmer
1936

Itinerary

Butts Ranch, 3000 ft., 5 mi. NNE San Benito, San Benito Co., Calif.

May 25 Left Berkeley 2 P.M. yesterday May 24 in Dodge truck with D.H. Johnson. Drove via Oakland, San Jose, Gilroy, Hollister, Tres Pinos & Paicines where we turned off up Tres Pinos Creek. Camped last night beside the road about 2 miles below Emmet. This morning drove on up the road to Emmet which is about 2 mi. farther up the cañon than is shown on the U.S.G.S San Benito Quad. Then turned off on side road up Salt Creek past Croxon Ranch to Butts Ranch = Butts Ranch on U.S.G.S topog-map. Went out about 8 A.M. with Johnson and hunted. Hunted over rolling hillsides grass covered with scattered Blue Oak Valley Oak and Live Oak with a few Digger Pine intermixed. Here I shot 1 Titmouse, 1 Slender Billed Nuthatch and 1 California Woodpecker and Johnson shot a Slender Billed Nuthatch and an Ash Throated Flycatcher. Then hunted along edge of Brush land with very thick cover 5-8 ft. high of Adenostoma, Ceanothus cuneatus, Arctostaphylos and Quercus dumosa. Here Johnson shot a California Jay and in the edge

Palmer
1936

Itinerary

Butts Ranch, 3000 ft., San Benito Co., (Cont'd)

May 25
cont'd.

of the oaks a Western Wood Pewee (?)
Then I heard California Thrasher, Wren
Tits, Brewer's Wren, Bush Tit and Calif.
Quail.

Then hunted on down thru the oaks
and up a small cañon running upward
toward the west. Thru in dense Live Oak,
Digges Pine and Wild Cherry, I shot a
Spotted Towhee. There also saw Yellow (?)
Warbler, Brown Towhee, California Jay
and California Woodpecker. Came back
thru the grain field in level canyon
bottom where I saw many Brewer
Blackbirds and Lark Sparrows (Johnson
shot one of these) and along the ~~the~~
creek in willows saw several Bullock
Orioles, House Finches, Lawrence Goldfinches
and Lazuli Buntings. Around the Barn
& house saw several ^{Western} ~~California~~ Kingbirds,
1 Say Phoebe?, many Green Backed Goldfinches
(mainly in 1 large flock) and many
House Finches. Saw several Red Tailed
Hawks flying over and 2 or 3 Turkey
Buzzards. Also saw a Cooper Hawk
flying around over the Chaparral.

Also heard crows during the day

Palmer
1936

Itinerary

May 25 Butts Ranch, 3000 ft., San Benito Co. (cont'd.)
cont'd. and many Black Headed Grosbeaks.
In the evening thought I heard a
Screech Owl call once

May 26 Went out around Johnson's Trapline
with him this A.M. Shot a Vigors Wren
in the chaparral and while squawking
it up aroused a chipmunk which
chirped at us for some time. Saw a
flock of Bush-tits near here. Heard no
Throats nor Wrentits (It is very
foggy this morning - almost misty).
Heard Calif. Woodpeckers, Calif. Jays
and Black Headed Grosbeaks in the
oaks. Shot a Sitmouse in the Live Oaks
Scared out a band of Calif. Quail there,
and also a Jackrabbit.

Went across the grainfield + saw very
few birds. One or two Bullock Orioles
in the willows by the stream and
several Brewer Blackbirds there. Saw
+ shot at several Beechey Ground
Squirrels on the open grassy hillsides
Saw 2 or 3 Maggies in the Oaks.
Around the barn + horse corral saw
several Black Phoebes which I hadn't
noticed yesterday.

Palmer
1936

Itinerary

Butts Ranch, 3000 ft., San Benito Co., (cont'd)

May 26
cont'd.

The fog cleared away about noon and the sun was bright and warm. I went up the hillside to the west of us about 2 P.M. Shot 2 Citellus beecheyi in the pasture. Hunted through the chaparral - here mostly scrub oak and mountain mahogany. Saw very few birds. Heard more but the brush is so dense I couldn't see them. Shot a Wren-tit and a Vigors Bewick Wren in the chaparral. There I also heard Thrashers and Calif. Quail. Saw several flocks of Bush-tits. In the Blue Oaks shot a Plain Titmouse and saw Calif. Jays and Calif. Woodpeckers. At the edge of the chaparral in a small Quercus lobata, shot a Western Gnatcatcher. Saw another chasing a Calif. Jay. Investigated and found it feeding a young one. Every time the parent Gnatcatcher left the young one, the Jay would fly back into the bush where the young one was. Almost immediately the parent Gnatcatcher would return and drive the Jay away. This kept up for several minutes till I took a shot at the Jay. It was in a large

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1936

Itinerary

May 26 (cont'd.) Butts Ranch, 3000 ft., San Benito Co., (cont'd)
Valley Oak saw a pair of Muttall
Woodpeckers.

Returned to camp & there saw a Sparrow Hawk which was being pursued by several small birds. At camp saw a pair of Downy Woodpeckers in the big cottonwoods by the house. Shot one which hung up in the tree. Went in the tent to finish putting up a bird & when I came back the woodpecker had disappeared. Either it recovered and flew away or one of the numerous cats got it. In the evening heard a Poorwill call to the SW apparently near the chaparral.

May 27 # Woke this A.M. to find it cloudy and cold with a raw wind from the south. Hunted through the chaparral SW of camp. Shot 1 Vigors Bewick Wren and a Chipping Sparrow there. Then crossed the grain field & shot 2 Maggies in the willows along the creek. Shot a Violet Green Swallow from a flock of about 30 which were flying about over a small canyon catching insects. Very few birds were out this morning. Saw only those mentioned above and Linnets, Green-

Palmer
1936

Itinerary

May 27
cont'd.

Butts Ranch, 3000 ft., San Benito Co., (cont'd).
backed Goldfinches, Brewer Blackbirds,
Western Bluebird, Black Phoebe, Bullock
Oriole, Ash-throated Flycatcher. Heard
Calif. Thrasher, Wren-tit, Black-headed
Grosbeak.

In the evening set 3 mole traps on
surface ridges in sandy silt soil of
the creek bottom. Still cold and windy
with heavy black clouds overhead. Very
few birds out.

May 28

Cold drizzly rain this A.M. 3 Mole
traps caught nothing. Hunted birds in
the rain for about 1 1/2 hrs. Saw 1 Black-
headed Grosbeak, 2 Ash-throated Flycatchers,
1 Nuttall Woodpecker, 1 Western Wood Pewee,
several Brewer Blackbirds, Western Blue-
birds, Linnets and greenbacked Gold-
finches. Didn't shoot anything. Spent
the day "putting up" mammals caught by
Johnson.

May 29

Warm and sunshiny this A.M. Hunted birds
from 5 to 9 A.M. Hunted south from camp
along the creek where I saw Brewer Blackbirds,
Bullock Oriole, Lawrence Goldfinch, Linnet
and Yellow-billed Magpie. ~~Then~~ Then hunted
along the edge of the chaparral (mostly

Palmer
1936

Hinewang

May 29 (cont'd) Butts Ranch, San Benito Co., (cont'd)
(cont'd) scrub Oak) and in the open grassy slopes covered by Blue Oak. From a large Valley Oak shot a Muttall Woodpecker and in the chaparral beside it (Scrub Oak, Ceanothus, Mountain Mahogany) shot a Plain Armouse. Also saw Brown Towhees, California Jay and Calif. Thrasher here. Went up a small canyon heading West and set a mole^{trap} (moved from the creek bottom) in a fresh surface ridge in the moist sand of the dry creek bed here. Saw many Gnatcatchers and several Spotted Towhees here in the Live Oak, Pison Oak, Plamunus ^{and shot a Lutescent Warbler} association. Hunted on up the canyon + shot at a pair of Juncos but failed to get them. Scared out a Redtailed Hawk which flew off down canyon.

Hunted back toward camp along the ridge which is grassy + covered by large Blue Oaks with a very few Digger Pines. There I shot 2 Slender-billed Nuthatches and a House Wren. Returned to camp + in an oak near the house, shot one of a pair of Yellow-billed Magpies. When picked up, this bird had

Palmer
1936

Itinerary

Butts Ranch, San Benito Co., (cont'd)
May 29₃ (cont'd) 2 grasshoppers and 1 bug of the Squash-bug type in its bill.

May 30 Weather poor. Heavy Thunder shower in afternoon. Finished skinning birds collected yesterday. Did no hunting.

May 31. Warm + clear after the rain. Hunted from the canyon where the ^{single} mole trap is south. Reset the mole trap in a fresh runway a little farther up the creek bed. Hunted along the edge of the chaparral (Scrub Oak, Ceanothus, Adenostoma, Manzanita) Shot 2 Toxostoma redivivum from the lower branches of an oak at the edge of the chaparral. Saw several Calif. Jays and a Brown Towhee here. Quatcatchers and Plain Titmouses are common in the Blue Oaks. Saw a flock of Bush-tits as I hunted south to the next canyon. This canyon is one visited by Johnson + me on the first day. The north side is grassy with Blue Oak + Digger Pine for a short distance up which gives way to heavy chaparral. The south side is cool + shaded with ~~the~~ large Live Oak, Digger Pine and underbrush of Wild Cherry and Poison Oak. On the south side of

Palmer
1936

May

May 31
cont'd. Butts Ranch, San Benito Co. cont'd.
of the canyon I shot 2 Anna Hummingbirds,
1 Calliope Hummer. There also saw Western
Tanager, Black-throated Gray Warbler,
Lutescent Warbler, Spotted Towhee, Western
Bluebird, Junco, ^{Lazuli Bunting} and Cooper Hawk. In
the chaparral on the north side, shot a
Vigors Bewick Wren, and 1 Plain Titmouse.
Also got a glimpse of a Wren Tit and
a Spotted Towhee here and heard Calif.
Quail. Got a shot at a Chipmunk here
but failed to get it. Returned to camp
& on way back saw Sparrow Hawks,
California Woodpeckers, Ash-throated
Flycatchers and Western Wood Pewees
in the Valley Oaks of the flat. Found
1 Scapanus latimanus in one of the
traps in the creek bottom.

In the afternoon shot a ♀ Downy
Woodpecker from one of the big Cottonwoods
by the house. Johnson returned with
several birds from the higher country to
the SE.

June 1 After lunch went with Johnson to the higher
country to the SE. Across the grain fields and
around the edge of flat the usual birds
were common. Noted a Red-tailed Hawk's nest

Palmer
1936

Itinerary

June 1
cont'd.

Butts Ranch, San Benito Co. (cont'd.)

about 50 ft. up in a Digger Pine but didn't have time to climb up to examine it.

Continued up a ridge through Digger Pine and Scrub Oak. Noticed that here, birds were very scarce. Saw only 2 or 3 Calif. Jays and a pair of Calif. Quail and heard one Wren Tit. Followed around the ridge to the highest point - 3750 ft. Here we had a good view of the surrounding country. Across the canyon to the east are some pines, which have been told by the Butts. They are certainly not Digger Pine. On the summit noted Western Bluebirds on the hillside, Western Gnatcatchers in the oaks and Cooper Hawk flying over. Continued down the ridge in westward direction along the edge of a heavy cover of Adenostoma and Manzanita. Heard several Calif. Thrashers and Wren Tits but couldn't get near them. (The chaparral is almost impenetrable) Walked down into Big Oak Flat. which is fairly level and grassy with many Blue Oak and a few Valley Oak. Western Gnatcatchers, Rain Titmouses and Chipping Sparrows were very common. Also saw Sparrow Hawk, California

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1936

Hinewy

June 1 Butte Ranch, San Benito Co. (Cont'd.)
cont'd. Jays, Red-tailed Hawk, California
Woodpecker, Western Bluebird, Ash-throated
Nyctcatcher and Wood Pewee. Shot a Pearl
Titmouse from a dead Valley Oak and
a California Thrasher and a Junco
from Live Oaks in a gulch. Here I also
saw a Brush Rabbit.

From Big Oak Flat went on back to the
Butte Ranch. On the way we flushed a Calif.
Quail and found a nest. The nest was
on the ground on a north facing hillside
under a small scrub Oak about 2 ft. high.
The nest contained 13 eggs. At the edge of
the grainfield in the oaks and Digger
Pine, Johnson shot a Junco and a Western
Bluebird. We saw 3 Bats (Eptesicus?) flying
over & stopped, hoping to get a shot but
saw no more. However, Johnson pointed
out two Horned Owls sitting on the limb
of a dead Valley Oak. I shot one which
turned out to be rather young. Arrived at
the camp about 8:30 P.M.

June 2. Did no hunting. Skinned birds collected
yesterday.

Palmer
1936

Itinerary

Butts Ranch, 3000 ft., San Benito Co., (cont'd.)

June 3. Drove in to Hollister today for supplies. On the way in, noticed a Road-runner about 2 mi. W of Emmet School. and saw a pair of Chondestes in an Elderbush about a mile farther on. Had heavy rain from Pajaro to Hollister and rain off and on most of the day. Returned in the afternoon arriving at camp about 4 P.M. Here found it clear and sunshiny with only a few scattered clouds.

June 4 This A.M., examined mole traps and found 1 Scapanus latimanus in the trap in the canyon. Moved this trap about 50 yds farther up the canyon. Shot a young Junco in a live oak. This was one of several (3?) which were with the parent birds.

In the afternoon hunted from 2:30 to 6. Went west of camp up the ridge & then southerly over the divide into the Salt Creek drainage. Hunted around Chaparral consisting of Scrub Oak, Manzanita and Adenostoma. There shot 2 Wren-tits and a Calif. Jay. Heard several Thrashers. and tried to get near them but couldn't. Also heard Spotted Towhees, Brown Towhees and Calif. Quail there. Saw Bush-tits,

Palmer
1936

Itinerary

June 4
cont'd.

Butts Ranch, San Benito Co. (cont'd.)

Plain Titmouses, Lawrence's Goldfinches,
a Bewick Wren and a Cooper Hawk.

Hunting in the heavy chaparral is rather hard & not very productive. Returned to camp & ^{on the way back,} shot a Jackrabbit at the edge of a scrub Oak thicket. ~~on the way back.~~

At camp saw 3 bats flying about and I shot one Eptesicus. All these appeared to be the same. Then saw one smaller bat (Myotis?) flying about under the Cottonwoods. Saw one "duck under" the eaves of the house. Got a ladder & went up in the attic where I saw 3, all of which got out.

June 5 At camp today, shot 1 Plain Titmouse, 1 White-breasted Nuthatch and 2 Downy Woodpeckers from the Cottonwood trees. Johnson brought in 2 Yellow-billed Magpies and a Downy Woodpecker.

June 6. Hard rain this A.M. Didn't attempt to hunt birds. Shot 1 Calif. Jay from a tree at camp. Went out about 6 P.M. after it had ceased raining and had cleared off somewhat. Caught 2 Thylac in the creek. Saw very few birds: Brown Towhee, Bullack Oriole, Calif. Jay, Mourning Dove.

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Itinerary

Butts Ranch, San Benito Co (cont'd.)

June 7 Rained all last night and this A.M. till about 9. Hunted, after it cleared off & the sun was out, from 10-12. Went up a small canyon E from the barn. This canyon is densely wooded, especially on the S. side, with Live Oak, Digges Pine, Calif. Buckeye, Amelanchier and with much undergrowth of Poison Oak and Wild Rose. Shot 1 Brown Towhee and 5 Juncos. Also saw Lazuli Bunting - most common in the wild rose thickets as well as House Wrens, Vigors Wren, Western Gnatcatcher, Western Bluebird, Spotted Towhee, California Jay and Plain Titmouse.

Shot 1 Cottontail in a thicket of wild rose bushes on the north facing slope.

A description of this area as I have seen it in the last 2 weeks is as follows. Butts Ranch is in a small valley running generally in a north & south direction. The valley is about 1 mile long and $\frac{1}{4}$ to $\frac{1}{2}$ mi. wide. The valley bottom is mainly planted to grain but there is some pasture land covered with grass and tall wild mustard. Through the valley runs a deep gulley with a small intermittent stream in it. Along the

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Itinerary

June 7 Butts Ranch, San Benito Co. (cont'd.)

cont'd. Stream are numerous willows up to 18-20 ft. in height. Around the ranch house are several large Cottonwoods and some large elder trees. The hillsides slope up gradually from the valley and are rounded and generally grassy. Around the edge and out in the grain fields are a few large Valley oaks. The hillsides are covered in many places by Blue Oaks with some Valley Oak and Digger Pine intermixed. Much of the hillsides, especially S.W. of camp are covered by dense chaparral - mainly scrub-oak but with some manzanita, mountain mahogany, Ceanothus cuneatus and small digger pine + Blue oak intermixed. Tops of the ridges are often covered by almost pure Adenostoma. Several small canyons run into the valley from the east and west. These are more densely wooded and more shaded + cooler. They are commonly filled with large live oaks + some Digger Pine and Valley Oak. with dense underbrush of scrub-oak, Poison oak, Amelanchier, wild cherry, wild rose and California buckeye.

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Itinerary

Butts Ranch, San Benito Co (Cont'd.)

June 7
cont'd.

A list of birds as seen in this locality from May 25 to date is as follows:

1. California Condor - None seen. Reported by Butts as being seen infrequently "farther back in the hills."
2. Buzzard - Seen nearly every day circling overhead. Usually only 1, 2, or 3 together.
3. Sharp-shinned Hawk - Several seen, usually flying lower over the chaparral or higher over the valley.
4. Cooper Hawk - Seen nearly every day, but usually only one or 2 per day. Usually flying low over the brush or through the treetops in the live oaks or less commonly the blue oaks.
5. Red-tailed Hawk - Rather common. Several pairs were nesting around the ranch. Nests were all in Digger Pines 30-50 ft. from the ground.
6. Sparrow Hawk - A few seen. Almost all seen were flying over in pursuit of some larger hawk. A few seen perched in Valley Oaks.
7. Calif. Quail - Fairly common in chaparral and grain fields. Small downy young seen about May 31. Nest found June 1.

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Itinerary

Butts Ranch, San Benito Co. (Cont'd.)

- June 7. ^{cont'd.} 8. Mourning Dove - Common in grain fields, in willows along the stream and in the Blue oak - Digger Pine belt.
- 9 Roadrunner - Seen twice along Tres Pinos Creek bottom about 1 mi W of Emmet School.
- 10 Screech Owl - One heard in the valley oaks about 11 P.M. on May 25.
11. Horned Owl - Several seen at dusk usually flying over the valley or around the large valley oaks. One young shot from Valley Oak.
- 12 Poorwill - Heard several times on clear nights from the chaparral. None seen. Butts reported that they were commonly seen in the road at night.
13. Anna Hummingbird - Fairly common in the live oaks and damp cañons.
- 14 Calliope Hummingbird - One collected (not saved) as it flew about in the periphery of a live oak - apparently gathering spider webs.
- 15 Downy Woodpecker - 5 or 6 seen during our stay. All but one in cottonwoods by the house. One seen in an elder bush at the edge of an old apple orchard.
16. Nuttall Woodpecker - Common especially in cottonwoods and Valley Oaks. Also seen in Live Oak + Blue Oak - Digger Pine associations.

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June 7 Butts Ranch, San Benito Co. (Cont'd.)

- Cont'd. 17 California Woodpecker - Common in
Live Oak and Valley Oak associations.
A few seen in Blue Oak - Digger Pine assoc-
iation.
- 18 - Flicker - Not often seen - probably only
5 or 6 during our stay. All were Blue-
oak, Digger Pine association.
- 19 Western Kingbird - Fairly common but
rather widely distributed around the ranch.
Usually around buildings or perched on
fences in the valley bottom.
20. Ash-throated Flycatcher - Common in
the Blue-oak - Digger Pine association and
around the barns. One nesting on rafters
in a shed.
21. Say Phoebe - No certain of this identification
but possibly one seen on a fence near the
barns.
22. Black Phoebe - Common around the
buildings. Often perched on fences in the
valley bottom. A few seen along the creek.
23. Western Wood Pewee - Not common in
the Live Oaks and Blue Oak - Digger Pine
associations.
24. Violet Green Swallow - Flock ^{of 30-40} seen several
times catching insects over a small swale

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Itinerary

June 7 Butts Ranch, San Benito Co. (Cont'd.)
Cont'd.

at the edge of the grainfield. Also perched in dead Valley Oaks. A few along the creek.
25 Yellow-billed Magpie - Very common. Seen and heard at all times. Commonly in willows along stream where indications are they nest. Also in grainfields and Valley oaks and less commonly in Blue-oak-Digger Pine. Young $\frac{3}{4}$ grown but ^{some} still being fed by parents.

26 California Jay - Common in chaparral, Live Oak, Blue-oak-Digger Pine and Cottonwood associations.

27 Western Crow - Only a very few seen flying over.

28 Clarke Nutcracker - Mr. Butts described a bird that wintered here last winter. From his description, I am sure it is this species.

29. Plain Titmouse - Very common everywhere in chaparral and trees but most common in Blue-oak-Digger Pine association.

30 Bush Tit - Common in the chaparral in flocks.

31. Slender Billed Nuthatch - Common about trees - Blue Oak-Digger Pine, Valley Oak

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Itinerary

June 7 Bulls Ranch, San Benito Co. (Cont'd.)
Cont'd.

and Cottonwoods.

32 Wren - tit - Commonly heard in the chaparral. Not often seen. Young not out yet.

33 Bewick Wren - Common in chaparral
Young completely feathered out

34 Western House Wren - Several seen around tangles of wild rose in the damp canyons and in the Blue Oaks.

35 Calif. Thrasher - Not common. In chaparral and Live Oak associations

36 Western Bluebird - Common in small flocks in Live Oak, Blue Oak - Digger Pine and Valley Oak associations. Less commonly seen in the grainfields or in willows along the creek

37 Western Gnatcatcher - Common everywhere in chaparral, Live Oak, and Blue Oak - Digger Pine associations. One feeding a bob-tailed young one on May 26.

38. Phainopepla - A pair seen in elder tree along Tres Pinos Creek west of Emmett.

39. Lutescent Warbler - Fairly common.

In isolated Digger Pines in the chaparral, in shady damp canyons (Live Oaks) and in willows along the creek.

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Itinerary

June 7 Butts Ranch, San Benito Co. (Cont'd.)
Cont'd.

40. Black-throated Gray Warbler - Two or three seen in shady, moist canyons in Live Oaks and Wild Cherry thickets.

41. Western Meadowlark - A few seen in grainfields and pasture land.

42. Bullock Oriole - Common in willows along the stream. Also in cottonwoods near the house and now & then in the large Valley Oaks.

43. Brewer Blackbird - Abundant around barns, in willows along the stream, in grainfields. Sometimes perched in Valley Oaks.

44. Western Tanager - Seen two or 3 times in shady, damp canyons around the live oaks and wild cherry thickets.

45. Black-headed Grosbeak - Only 2 or 3 seen, but heard commonly in Live Oaks, Valley Oaks and Cottonwoods.

46. Lazuli Bunting - Common in the shady, moist canyons in Wild Cherry, wild rose and Live Oak and in willows along the stream. Several pairs feeding young

47. Linnet - Common ^{everywhere} except in the chaparral.

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Itinerary

June 7 Butts Ranch, San Benito Co. (Cont'd.)

- Cont'd. 48. Green-backed Goldfinch - Fairly common in Line Oak & Blue Oak-Digger Pine association. Usually in flocks of from 10-25.
49. Lawrence Goldfinch - Abundant in willows along the creek through the grainfield. Often perched on fences in the fields. Usually flocks of ^{approx.} 75-150 ±
50. Spotted Towhee - Common in the chaparral and in dense brush (Wild Cherry, Amelanchier, Poison Oak) under Line Oaks in the moist canyons & gulches.
51. Brown Towhee - Common in chaparral and Blue Oak-Digger Pine associations. Less common in willows along the creek through the grainfield.
52. Lark Sparrow. Abundant in the grainfields and pasture lands.
53. Junco - Fairly common in damp canyons & gulches usually in the Line Oaks or less commonly Digger Pines.
54. Chipping Sparrow - A few seen in chaparral, Line Oak, and willows along the creek. Seen now & then on open grassy hillsides.

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Itinerary

1 mi. SE summit San Benito Mtn. 4400 ft., San Benito
Co., Calif. June 9, 1936

June 9 Broke camp at Butte Ranch yesterday, leaving there about 11 A.M. Drove via Emmet and Paicines to Fred Pino for supplies. Then back along the road up the San Benito River. Stopped at Pinerock ranch which belongs to George Butts, brother of Willie Butts on whose ranch we were camped. Stayed a few minutes and ^{then} continued on up the river road to San Benito where we turned off onto the highway. There saw a very large dead gopher snake lying by the road. Drove on via Bitterwater to Hernandez where we collected a Boyle King snake in the road. Enquired for mail at Hernandez Post Office. The Postmaster reported the taking by a neighbor last winter of a bird like a small crow—gray with black and white wings. Probably, in my opinion, a Clarke Nuthacker. He also showed us a picture of a Mountain Lion killed by him last winter. We turned off the ^{main} road and continued up Bear Creek toward Idria. Where we crossed the summit at ft., I saw mole ridges on the bare hilltop. Got off on several side roads which are on the map but are not usable any more. Finally enquired our way at a mine and got on

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Itinerary

June 9
cont'd.

1 mi. SE summit San Benito Mtn., (cont'd.)

The main road for San Benito Peak.

Camped that night about 1 mi. up the road from this locality. This morning drove back (generally N.W.) to the highest ridge and hiked up a spur of San Benito Mtn. There oriented ourselves with the map. ~~There~~ and looked for the best appearing place to camp. Walked back to the car & drove down to the above locality where we set up camp.

In the afternoon, Johnson drove to Idria & I stayed in camp where I collected several Sceloporus which are very common here. About 4:30 P.M. went hunting for birds. Hunted first thru Conifers - mixed Coulter Pine, Digger Pine, Incense Cedar, and Yellow Pine. These are rather scattered and small (mostly 20-40 ft. high). Saw few birds there. Shot one Spotted Towhee and saw two others. Then hunted through the chaparral on a N facing slope. The chaparral is dense and low. 3-4½ ft. high and mostly scrub Oak with some Ceanothus, Gooseberries, Manzanita and Rhamnus. There I shot a Lutescent Warbler and a Black-chinned Sparrow. Saw many Western Gnatcatchers, several Spotted Towhees,

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Hinewary

1 mi. SE summit San Benito Mtn. (cont.)

June 9th cont'd. Bewick Wrens, Plain Titmouses, Black-throated Gray Warblers, Bush Tits, Mourning Doves. In the few conifers saw several Wood Pewees. Two Golden Eagles circled high overhead. Also heard Wren-tits but didn't see any. Returned to camp where I shot a Junco from the lower branches of a Digger Pine.

June 10. This morning hunted from 5:30-7:30 up the same small canyon to the S of camp where I hunted yesterday. Shot a Wren Tit in the chaparral. It had insects in its bill and was apparently feeding young but I couldn't locate the nest or young. Shot a Spotted Towhee and an Olive-sided Flycatcher and took a long shot at a Golden Eagle but didn't get it. Saw no new birds and no more Black-chinned Sparrows. Shot a Eutamias merriami from the top of a large Boulder in the creek bed.

About 11 AM. went up the road (SE) and set 3 mole traps in fresh surface ridges. Saw 2 Hairy Woodpeckers in a large Digger Pine and a Chipmunk in the brush but had no gun.

About 4:30 P.M. went out from camp and hunted over the N slope in conifers

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Hinevaug

1 mi. SE summit San Benito Mtn. (cont'd)

June 10
cont'd.

and shot a Plain Titmouse and a Hairy Woodpecker. Heard one White-breasted Nuthatch. Birds were scarce in the conifers. Hunted back into the canyon where I was this A.M. New birds seen here this evening were California Jay and Red-shafted Flicker.

June 11

Nothing in 3 mole traps this A.M. Near camp in brush and scrubby conifers, shot 2 Plain Titmouses, 1 Linnet (?), 1 Western Gnatcatcher and saw the usual other birds. Shot one chipmunk as it was climbing up the trunk of a small Digger Pine. It was about 2 ft. above the ground when I shot it. In the evening hunted up the road (E) along the creek. Shot 1 Bewick Wren in the brush + saw Spotted Towhees, Western Gnatcatchers, Plain Titmouses, Mourning Dove, Calif. Jay and 1 White-breasted Nuthatch. Birds were rather scarce.

Found a Sceloporus in my sleeping bag when I went to bed.

June 12 In the A.M. (5-7:30) hunted up the hill just back of camp (E) in mixed conifers and chaparral. Shot 1 Junco

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Itinerary

- June 12, cont'd. 1 mi. SE summit San Benito Mtn., (cont'd)
1 Hairy Woodpecker, 1 White-headed Nuthatch in the conifers. Hunted slightly to the west & into a bushy little canyon with a small stream in it. Here in the chaparral, I shot a spotted Towhee, 1 Black-throated Gray Warbler and 1 Brewer's Wren.
The 3 moletraps caught nothing. Shot 2 chipmunks when I went to examine moletraps.
- June 13 Hunted birds Ther. P.M. up the same little canyon SW of camp where I was yesterday. In the conifers shot 1 Green-backed Goldfinch of a pair which was perched in the top of an Incense cedar near the stream. Sat down by the creek at the edge of the brush & counted 15 birds within 20 feet of me, inside of 1 minute. There were: Spotted Towhees, 2; Bush-Tit, 5; Western Gnatcatcher, 3; Brewer's Wren, 2; Wren-Tit, 2; Small Flycatcher (Empidonax ^{d. difficilis} sp.) 1. I shot the flycatcher. Shot a Brewer's Wren a little farther up the canyon & on looking up after wrapping it saw a Black-chinned Sparrow in a nearby Ceanothus and shot it. At the head of the creek, came out on a sort of plateau which is fairly level & brush covered with Sub-oak predominating and Manginita, Ceanothus, cuneatus and a few small

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Itinerary

June 13
cont'd.

Low SE summit San Benito Mts. (cont'd.)
pines. Here I shot a Wren Tit and an
unknown which is, I think, a Bell Sparrow.
Returned down the canyon and near its
upper end, shot a Black-chinned Sparrow
in the scrub-oak.

In the evening, Johnson came in with
a Poorwill which he shot in the road
E of camp.

June 14 Hoped to get up to the summit of San Benito
Mtn. today but it was cloudy all day
+ about 4:30 P.M. started to rain. Hunted
birds 4:30 to 7:00 P.M. Hunted over the
"plateau" SW of camp where I got to yester-
day morning. At first, the rain was
rather hard + I saw and heard very few
birds. In a short time it eased up and
the birds were very active. In the pines
(Coulter + Diggs) at the edge of the
brush, shot 2 Thrashers (both young)
One old parent was nearby but I couldn't
get a shot at it. In the brush shot 2 Wren-
Tits, 2 Bell Sparrows and 1 Plain Titmouse.
Other birds were: Calif. Jay, Ash-Throated
Flycatcher, Black-Throated Gray Warbler,
Spotted Towhee, Bush-Tit, Bewick Wren,
Western Gnatcatcher. All these were
rather common. Saw single birds off

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Highway

1936

June 14
cont'd.

1 mi. SE summit San Benito Mtn. (cont'd.)

Golden Eagle, Mourning Dove, Red-shafted Flicker and Black-chinned Sparrow

The last species was looked for especially but only the one bird was seen and it was out of "aux" range.

June 15

Caught Scapanus latimanus in the 3 mole traps.

In the afternoon drove down to New Idria for mail but didn't get any. On the way back stopped at a flat of about 10 acres. This locality designated as 1 mi. S New Idria, 3700 ft., San Benito Co., Calif.. The flat is grassy (dry) facing NE. The hill to the SW is brush covered & the upper edge of the flat is covered by a growth of scrubby Blue oak, Digger Pine and Cercocarpus betulifolia (?). Hunted around there & shot 1 Anna's Hummingbird and 1 Spotted Towhee. Saw a few Bewick Wrens and a small flock of Lawrence Goldfinches. The flat is largely dry grass with a few patches of Eriodictyon californicum. The edges of the flat are covered by Chrysothamnus. To the E it drops off into a steep canyon. In the ^{grassy part of the} flat saw many Lark Sparrows & Calif Quail in the Eriodictyon. Shot a Say Phoebe from an Elder bush, and a

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Itinerary

1 mi. S New Idria, 3700 ft., cont'd.

June 15
cont'd.

Brown Towhee in the Digger Pines. Tried to get a canyon wren which was seen on the rocky cliff of the canyon side but failed. There I also saw Red-tailed Hawk (apparently nesting on the cliff), Cliff Swallows, Linnets. Found a broken skull of a Gray Fox at the foot of the cliff. In the trees around the flat also saw Calif. Jays and Mourning Doves.

Set a line of 28 gov. size mouse traps running through the Chrysothamnus and dry grass. Most of the traps were set on hard bare ground under the Chrysothamnus bushes. About 8 were set in the grassy flat.

In the evening, on the way back, shot a Poorwill in the road just below the reservoir.

June 16
1936

Johnson examined my traps this A.M. + found mammals of the following species
13 Peromyscus maniculatus (8♂, 4♀, 1?)
2 Dipodomys heermanni (1 ad♂, 1 juv.♂)
1 Reithrodontomys m. longicaudus ♂.

In the afternoon shot 1 Hairy Woodpecker from a Coulter Pine near camp. Hunted for Black-chinned Sparrows in the

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1936

Finuary

June 16 (cont'd) 1 mi. SE summit San Benito Mtn. (cont'd.)
Chaparral SW of camp. Saw 3, all out of gunshot. Shot a Bell Sparrow - returned to camp.

This morning at camp caught 1 Tham-
nophis ordinoides. This was taken on the bank of the creek and headed for the brush at the water's edge when pursued.

June 17 This A.M. went in to Idria for mail. Saw a canyon wren there which is nesting on an old stone building (almost = a cliff). Also saw English Sparrows, Western King-birds, Linnetts, Calif. Jays and Calif. Quail at New Idria.

On the way down, shot a Cnemidophorus from a bank beside the road. This locality designated as $\frac{1}{2}$ mi. SW New Idria, 3200 ft., San Benito Co., Calif.

Returned to camp in the afternoon. From 5-7 P.M. hunted up the first cañon SE of camp. to the ridge which reached in highest point an elevation of 5100+ ft. On the north side at the head of the cañon, shot a Black-chinned Sparrow in the scrub-oak. Saw 3 Golden Eagles on the ridge. Other birds were not as numerous as usual, possibly because of the stiff breeze on the ridge.

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1936

Itinerary

June 17 cont'd. The locality for the Black-chinned sparrow was determined as: 1/2 mi. SE summit San Benito Mtn., 4900 ft., San Benito Co., Calif.

June 18 This AM. moved one of the mole traps. Moles seem to be rather scarce here - so far have caught only one.

From 10 - 12:30 P.M. hunted with Johnson for reptiles + amphibians along the creek for about a mile below camp. Caught a large Rhannophis ordinoides. This was first seen in the road about 15 ft. from the stream. When pursued, it entered a Rhamnus bush and crawled around in the branches near the top of the bush until "axed". Also caught 2 Sceloporus and 1 Rana. Found a skull of a young wood-rat while I was tearing up a rotten log.

In the afternoon, hiked up San Benito Mtn. with Johnson. The summit of the mountain - 5258 ft. - is rather flat, sloping slightly to the SE. The top of the mountain is rocky soil and is mostly covered by rather open type of chaparral. The chaparral is predominately scrub-oak with manzanita, and Ceanothus cuneatus intermixed. Scattered over the flat are Coulter Pines, most of them

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June 18
cont'd.

Itinerary

rather small - 10-25 ft. high but there are a few larger trees 30+ ft. high, most of the latter somewhat twisted and wind bent.

Hunted around the summit from 4:30 - 7:00 P.M. and shot the following birds:

1 Spotted Towhee, in mixed small Coulter Pines and brush; 2 Bewick Wrens, in mixed Coulter Pines and brush; 1 Western Gnatcatcher, in manzanita and scrub oak; 1 Juncos in Coulter Pines; 1 Black-chinned Sparrow in mixed chaparral and Coulter Pines.

Also saw several others of the above species and: Green-backed Goldfinch, Black-throated Gray Warbler, Linnet(?), Plain Titmouse in the Coulter Pines, Bell Sparrow and Wren-tits in the chaparral; White-throated Swift and Mourning Dove flying over. Saw no gopher or mole workings at the summit but saw mole workings at about 4900 ft. on the E side of the Mtn. On the way back to camp, shot a Brush rabbit on the rocky ridge in sparse, low chaparral.

On the way up the mountain we saw and pursued a Phrynosoma at about the 5000 ft. level on rocky soil in sparse chaparral, but it got away.

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Itinerary

June 18
cont'd.

1 mi. SE summit San Benito Mtn. (cont'd)

The locality for the birds collected was given as: Summit San Benito Mtn., 5250 ft., San Benito Co., Calif.

At camp, in the evening about 7:35 saw a small owl fly over. I chased after it but lost it in the pines. On the way back, in an opening between the conifers, I shot 2 Poorwill's, one of them too badly to save.

June 19. In the late afternoon caught a Scapanus latimanus in 1 of the 3 mole traps. The mole was still alive and was kept under observation for about 1/2 hr.

In the evening, heard a Sparrow Hawk making a racket. I stepped out of the tent & saw it pursuing a Swainson Hawk. Got a snap shot at it over the trees, but the 10s wouldn't kill it. Johnson reported the hawk farther down the canyon. He also reports seeing a Black Phoebe going up the canyon. It would fly a ways then light a moment, then fly on. Apparently it was just passing through.

Went hunting about 7 P.M. Hunted up the road along the creek that joins the creek that runs by camp. Saw a Bushy Rabbit at the edge of the road. It

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Itinerary

June 19
cont'd.

1 mi. SE summit San Benito Mtn. (cont'd)
ducked off into the brush. Saw a Raven which I chased after but it stayed out of gunshot. About dark, called up at Poorwill but couldn't get a shot. Saw 3 bats (Myotis). On the way back to camp, shot at a large Owl but didn't get it. While eating supper heard a Horned Owl hoot once.

June 20 This A.M. drove with Johnson up the creek, past Santa Rita Pk. and around to The Gem mine. This locality we called: 1 mi. S Santa Rita Pk., 4500 ft., San Benito Co., Calif. Stopped at the mine where there is a small flat with 12 or 15 large yellow pines and Incense Cedars. The edge of the flat slopes up into the hillsides and is covered by dense brush - scrub oak and Ceanothus with small Coulter and Digges pines. Ceanothus. There I shot 2 Spotted Towhees and a Wren-tit. Also shot at Martins which were flying about a dead pine; didn't get any, however. Also saw Flicker, Western Gnatcatcher, Western Bluebird, Bewick Wren. Johnson brought in a Plain Titmouse and a young Black-chinned Sparrow. The creek flowing thru the flat is slow, ^{shallow} and full of algae. There I caught 3 Rana boylei and saw many others. Caught a Sceloporus on a log. Stayed here from about 11 A.M. - 3 P.M. Set a bunch of gopher traps with

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Itinerary

June 20
cont'd. 1 mi. S Santa Rita Pk., San Benito Co. (cont'd.)
Johnson in red soil in a burned over hill-side. The scrub oak was just sprouting up again 1-2 ft. high here.

Drove on back to the base of Santa Rita Pk. and hiked up the west side. The whole peak has been burned over. The scrub oak has sprouted up about 2-3 ft. Saw no birds in it. Saw 2 ^{golden} Eagles flying over the summit but they flew off as we approached. The summit of the peak is a jumble of bare rock - mostly very large boulders. There I shot 1 Rock Wren. Also saw White-throated Swifts. Locality there = Summit Santa Rita Pk., 5165 ft., San Benito Co., Calif. Returned to camp just before dark.

June 21 Returned to the gem mine about 5 AM. There I shot 2 Purple Martins as they flew about a large dead pine. Also shot 1 Buck rabbit at the edge of the mixed scrub-oak - Ceanothus cuneatus. Johnson picked up the gopher traps and we returned to camp.

At camp 1 mi. SE summit San Benito Mtn. shot 1 White-breasted Nuthatch as it worked around the trunk of a 20 ft. Coulter pine with 2 others. Also shot 1 Ash-throated Flycatcher in another Coulter pine of about the same size.

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Itinerary

June 22 1 mi. SE summit San Benito Mtn. Cont'd.

A list of birds as seen in this vicinity during the last 2 weeks is as follows.

1. Buzzard - 3 or 4 seen flying over
2. Cooper Hawk - Rarely seen - flying over the chaparral.
3. Swainson Hawk - One seen flying down canyon pursued by a Sparrow Hawk.
4. Golden Eagle - About 10 seen - commonly around the high, rocky ridges.
5. Sparrow Hawk - One family of 4 or 5 near camp in a dead stub of an incense cedar.
6. Mourning Dove - Fairly common in all situations.
7. Horned Lark - One heard and possibly one seen at dusk in the conifers. (Identification uncertain)
8. Poorwill - 3 or 4 collected usually in the dusty road at dusk or openings in the chaparral or conifers. Heard nearly every evening.
9. White Throated Swift - Rocky ridges & higher peaks.

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Itinerary

June 22
Cont'd. 1 mi. SE summit San Benito Mtn (Cont'd.)
10. Hairy Woodpecker - 4 or 5 seen
in the conifers.

11. Nuttall Woodpecker - Not common
in the conifers.

12. Flicker - A few (5 or 6) seen
in the conifers or mixed conifers
and chaparral.

13. Ash-throated Flycatcher - Fairly
common in conifers and mixed
conifers and chaparral.

14. Black Phoebe - Johnson saw
one that kept traveling up the
creek. Apparently just "passing through".

15. Olive-sided Flycatcher - Seen
fairly regularly in the conifers
where they seem to prefer perching
on the tip of the leader.

16. Wood Pewee - Not common in
the conifers.

17. Western Flycatcher - One taken
in a narrow very brushy gulch
perched about 3 ft. above a small
creek.

18. Calif. Jay - Common in chaparral,
mixed chaparral and conifers, and
conifers.

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Itinerary

1 mi. SE summit San Benito Mtn. (Cont'd.)

June 22/19. Raven - 2 seen, 1 by Johnson +
Cont'd. 1 by myself. The one I saw came over

a ridge and traveled down canyon
as far as I could see it. It seemed
to be heading for lower country

20. Plain Titmouse - Common in
conifers less so in mixed chaparral
and conifers.

21 Bush-Tit. - Several flocks
seen for the most part in chaparral
but might be found in almost any
mixture or variety of bushes and trees.

22 Slender Billed Nuthatch - Confined
to the conifers. Rather rare ^{generally in} fairly groups.

23. Wren-Tit - Common in chaparral. One of the most abundant of
the dense chaparral birds.

24 Bewick Wren - Abundant in
the dense chaparral. "Squeeking"
rarely failed to bring forth several of
these birds

25 Calif. Thrasher - Rare in the
leaky chaparral and mixed
conifers and chaparral.

26. Western Bluebird - Not common.
Usually in the conifers.

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June 22
cont'd.

Itinerary

1 mi. S E summit San Benito Mtn.

27. Western Gnatcatcher - abundant everywhere in chaparral or conifers. Probably the commonest bird.

28. Lutescent Warbler - moderately common in the chaparral and along the streams.

29. Black-throated Gray Warbler -

Common in the conifers.

30. Linnet - A few seen in the conifers.

31. Green-backed Goldfinch - 4 or 5 seen perched in topmost branches of conifers generally near the stream.

32. Spotted Towhee - Common in the chaparral, mixed chaparral + conifers and in the smaller conifers.

33. Brown Towhee - 1 seen near camp at the end of our stay. It had apparently just come into that area as we had not seen it before.

34. Bell Sparrow - Fairly common in the dense chaparral of the N. facing slope.

35. Pink Pinon Juncos - In flocks for the most part, 10-15 in number usually in heaviest stands of conifers or very bushy gulches with streams.

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Itinerary

1936

1 mi. SE summit San Benito Mtn.

June 22 '36, Western Chipping Sparrow - Family
cont'd. common along the bushy creeks
and along the canyon bottom.

37. Calif. Black-chinned Sparrow -
About 10 seen during our stay
all in very dense chaparral of
N or NE facing slopes.

3700', 1 mi. S New Idria, June 15

- | | |
|------------------------|----------------------|
| 1 Spotted Towhee | * 7. Say Phoebe |
| 2 Bewick Wren | 8 Brown Towhee |
| * 3 Anna Hummingbird | * 9 Canyon Wren |
| * 4 Lawrence Goldfinch | * 10 Red-tailed Hawk |
| * 5 Lark Sparrow | * 11 Cliff Swallow |
| 6 Calif. Quail | 12 Linn. Tit |
| | 13. Poorwill. |

New Idria

June 16

- | | |
|----------------------|----------------|
| * 1. Canyon Wren | 5 Calif. Jay |
| * 2 English Sparrow | 6 Calif. Quail |
| * 3 Western Kingbird | |
| 4 Linn. Tit | |

5250 ft. Summit San Benito Mtn. June 18

- | | |
|--------------------------|-------------------------|
| 1. Spotted Towhee | 7 Black-throated Gray |
| 2 Bewick Wren | 8 Linn. Tit |
| 3 Western Gnatcatcher | 9 Plain Titmouse |
| 4. Junco | 10 Bell Sparrow |
| 5 Black-chinned Sparrow | 11 Wren Tit |
| 6 Green-backed Goldfinch | 12 White-throated Swift |
| | 13 Mourning Dove. |

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June 22
cont'd.

Itinerary

1 mi. SE Summit San Benito Mtn. Cont'd.

Birds seen at 1 mi. S Santa Rita Peak, 4500 ft.; June 20.

- | | |
|---------------------------|--------------------|
| 1 Spotted Towhee | 6 Western Bluebird |
| 2 Wren Tit | 7 Bewick Wren |
| * 3 Western Purple Martin | 8 Black-Chinned |
| 4 Flicker | [Sparrow] |
| 5 Western Gnatcatcher | 9 Plain Titmouse |
- Summit Santa Rita Pk., 5165 ft
June 20.

- 1 White-throated Swift, 2 Golden Eagle,
3 Rock Wren.

* Indicates species not in list for
1 mi. SE summit San Benito Mtn.

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Itinerary

Loc. NNE New Idria, 1900 ft., San Benito Co., Calif.

June 22 Broke camp this A.M. 1 mi. SE summit San Benito Mtn. and drove down to New Idria where we stopped for an hour or so. Again saw the Canyon Wren. That has a nest on the front porch of the old store building there. Drove on down the road to the above locality where we got permission to camp from Lloyd Jones, the owner of the ranch.

Got camp set up on the NE side of San Carlos Creek (now very muddy from mining activities). About 3 P.M., Johnson and I walked to the top of a nearby hill for a look around. Camp is just on the edge of the chaparral belt. South of us the hills are all covered by Adenostoma, Quercus dumosa and Arctostaphylos sp.

Along the creek are large cottonwoods and lining the banks are scrubby Blue Oaks, 8-12 ft. high. North of camp, which is in the grassy cañon bottom, the appearance of the hills is much different. South and east facing slopes are sparsely covered by artemisia californica, Eriogonum fasciculatum?, Ephedra, small annual grasses (now dry), with a few scattered bushes of scrub oak, Adenostoma or Juniper. North and west facing slopes are generally grassy with a much heavier cover of Juniper.

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Itinerary

2 mi. NNE New Idria (cont'd)

June 22
cont'd.

scrub-oak, Artemisia californica, Adenostoma and Arctostaphylos sp. North of camp, there are some high sandstone cliffs, 60-100 ft. high, with many "potholes" on their faces. We went over and examined the cliffs and I scared out a screech-owl which Johnson shot. Also saw 2 Barn Owls and found many Barn Owl pellets. Saw many doves and quail. Returned to camp in the evening where I saw several small bats (Probably Myotis and Pipistrellus).

June 23 Caught a Thamnophis ordinoides at camp today. It was on the terrace above the creek about 15 ft. from the water. When pursued, it took refuge under a boulder.

This A.M., from 9-12, hunted up along the creek. Shot a Cnemidophorus in grass under a small Blue Oak. Shot a Bewick Wren at the edge of the chaparral and a Cooper Hawk in the cottonwoods. Birds were very scarce. The only common ones were Lark Sparrows, Green Backed Goldfinches and Linnets. Also saw Ash-Throated Flycatcher, Plain Titmouse and an Empidonax in the cottonwoods and Doves and quail in the small Blue Oaks and grass.

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Itinerary

2 mi. NNE New Idria (cont'd.)

June 23
cont'd.

Picked up part of the skull of a Grizzly Bear near an old cabin.

In the afternoon at camp, shot a Say Phoebe from the lower branches of the large Blue Oak under which we are camped. In the evening hunted up the canyon by the sandstone cliffs. Shot several times at Bats but got none. Saw at least 12 Barn Owls and heard one Horned Owl.

June 24 Hunted this A.M. from 4:30 - 8:30 around the cliffs N of camp. There I shot 2 Canyon Wrens and heard several others. Also saw there: Barn Owls, White-throated Swifts, Cliff Swallows, Rock Wrens, Ash-throated Flycatchers and Mourning Doves. In the chaparral across the canyon, saw Sparrow Hawk, Shrike and Calif. Thrasher.

At camp, shot a Plain Titmouse in the Blue Oaks.

In the afternoon, hunted along the base of the hills north of us but got no birds. Saw only Doves, Quail, Lark Sparrows and 1 Buzzard.

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Itinerary

June 25 2 mi. NNE New Idria (cont'd)
Hunted NE of camp from 4:30-8 A.M.
in the sparsely brush covered hillsides,
Saw very few birds and shot none.
Spent a large part of the time pursuing 2
Horned Doves.

At camp shot a White-Breasted Nuthatch
from the big Blue Oak by camp and
shot an Anna Hummingbird from a
Cottonwood.

From 10-12 A.M., hunted down the creek
in the cottonwoods. Shot 1 Calif. Jay and 1
Say Phoebe in the cottonwoods. Also saw
Brown Towhee, Sparrow Hawk, Meadowlark,
Dove, Quail, Bullock Oriole, Killdeer
and Buzzard. Caught a lizard in the dry
creek bed. At camp, shot a Brown Towhee
in the small Blue Oaks and 1 Plain
Titmouse from the large Blue Oak over our
camp.

In the evening, set 70 museum special
mouse traps in a line running up a
ridge in the sparse growth of Eriogonum,
Ephedra, short grass, with scattered
Juniperus. Traps set 15-20 steps apart on
dry, powdery adobe soil.

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Itinerary

2 mi. NNE New Idria (cont'd)

June 26. The 70 mouse traps caught 18 mammals of the following species: Dipodomys hermanni, 8 (7♀, 1♂); Perognathus californicus, 1 (♂); Neotoma lepida! (♀); Onychomys torridus, 1 (♀); Peromyscus maniculatus, 7 (4♀, 3♂).

In the evening set a line of 75 gov. sized mouse traps in a line running up a ridge NE of camp in the same type of country as trapped the night before.

June 27 At 5 AM., 75 museum special mouse traps held, ^{a total of 24 of} the following mammals: Dipodomys hermanni, 15 (9♀, 6♂); Perognathus californicus 4 (2♂, 1♀, 1?); Onychomys torridus, 1 ♀; Peromyscus maniculatus, 4 (3♂, 1♀). Shot a Say Phoebe from a bush on an open hillside.

In the afternoon, at camp, shot a young Canyon Wren as it was clinging to the wall inside an old adobe house. Set no traps in the evening, as we are breaking camp tomorrow.

June 28 Spent the morning packing birds to ship to M.V.Z.

A list of the birds as observed at this camp is as follows:

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Itinerary

2 mi. NNE New Idria (cont'd.)

June 28
cont'd.

1. Turkey Vulture - A few seen circling overhead
2. Copper Hawk - Common over the chaparral. Apparently had nested in the cottonwoods along the creek.
3. Western Redtailed Hawk - Seen almost every day soaring over the chaparral covered slopes south of camp.
4. Sparrow Hawk - Fairly common on fence posts + telephone lines around open fields and in cottonwoods along the creek
5. Valley Quail - Abundant in chaparral and small blue oaks at the edge of the grain fields or open land generally.
6. Killdeer - Common along the creek.
7. Mourning Dove - common everywhere.
8. Barn Owl - Many around the sandstone cliffs N of camp. Commonly in pot holes in the cliff. Nesting there
9. Screech Owl - One young one collected. Scaud out from beneath a

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Itinerary

2 mi. NNE New Idria (cont'd.)

June 28
Cont'd.

Large overhanging boulder near the sandstone cliffs.

10. Horned Owl - Heard several nights at camp. Seen several times near the sandstone cliffs in the early morning commonly perching near the ground in dense junipers.

11. Poorwill - Johnson collected one in a little sandy bottomed gully running through the grain field. Heard others there later.

12. White-Throated Swift - About 12 or 15 seen in flight around the cliffs N of camp.

13. Anna Hummingbird - A few seen about tree tobacco plants along the creek or perched in cottonwoods.

14. Muttall Woodpecker - Not common in the cottonwoods, blue oaks & fruit trees growing in the fields.

15. Say Phoebe - Several collected. Most commonly in lower branches of large blue oaks or cottonwoods or along fences in open fields.

16. Ash-Throated Flycatcher - Fairly common in the junipers and a few in cottonwoods along the stream.

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Itinerary

2 mi. NNW New Idria (Cont'd)

June 28
cont'd.

17 Western? Flycatcher - One seen in
in cottonwoods along the stream. Identifi-
cation uncertain

18. Cliff Swallow - Common around
the sandstone cliffs, the barn at Jones
ranch and flying about over the
stream

19. Violet-green Swallow - A few seen
flying over the creek

20 - California Jay - Fairly common in
cottonwoods along the stream and
in the chaparral south of camp.

21 Raven - Several seen flying over
high up generally in the early morning
4-5 A.M. or in the evening 6-7 P.M.

22. Plain Titmouse - Common in the
blue oaks and some in chaparral
and the cottonwoods along the creek.

23. Bush-Tit - A few flocks seen
in the chaparral south of camp,
in the junipers or in blue oaks
around camp.

24. Slender-billed Nuthatch - Not
common in the blue oaks. Most of those
seen were in the large blue oak at camp.

25 Wren-tit - Fairly common in the
manzanita, Ceanothus, scrub oak,

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Itinerary

June 28
cont'd.

2 mi. NNW New Idria (Cont'd.)

and adenostoma dense chaparral south of camp.

26. Rock Wren - Common around the sandstone cliffs

27. Cañon Wren - Not common around the cliffs. One taken in an old adobe building.

28. Bewick Wren - A few seen around the small blue oak or heard in the dense ^{adenostoma, manzanita, scrub oak} chaparral south of camp.

29. Calif. Thrasher - Not common.

In chaparral - adenostoma, manzanita, scrub oak, Ceanothus, scrub blue oak - Also in the junipers.

30. Western Bluebird - In cottonwoods along the creek and around the barns and building. Fairly common in the blue oak.

31. Western Gnatcatcher - Very few seen mostly in the blue oak a few in mixed adenostoma - juniper.

32. Calif. Shrike - Moderately common around the juniper - adenostoma association north of camp.

33. Western Meadowlark - Only 3 or 4 seen. These were in the grainfields or grassland usually near the creek.

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Itinerary

2 mi. NW New Idria (cont'd.)

June 28
cont'd.

34. Bullock Oriole - 3 or 4 seen in the cottonwoods along the creek.
35. Brewer Blackbird - Small flock seen below Jones' barn along the creek or in muddy spots.
36. Linnet - Very common in large flocks. Met with everywhere. Most common in cottonwoods at the edges of grainfields.
37. Green-backed Goldfinch - In fairly large flocks in the cottonwoods along the creek, in grainfields or in brush at the edges of open fields.
38. Brown Towhee - Uncommon less than 10 seen. Mostly in the scrub oak, small blue oak, Adenostoma & manzanita south of camp. One or two in cottonwoods and 1 in an old house.
39. Lark Sparrow - Common in flocks usually ^{perched} in trees or chaparral at edges of grain field or foraging out in the field.

1/1

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Itinerary

Panoche Cr., 1200 ft., 2 mi. SE Panoche, San Benito Co., Calif.

June 29 Broke camp 2 mi. NNE New Idria yesterday about 3 P.M. and drove via John Ashurst's ranch and Gismold Creek to Panoche. Near Dixon Spring we saw 4 Ravens which were too wary to approach close enough for a shot. We also ran into a flock of Horned Larks by the edge of the road. Of these, I shot 6 birds and Johnson shot 2. This locality designated as: Nr. Dixon Spring, 1900 ft., 8 mi. NNE New Idria, San Benito Co., Calif.

At Panoche "corners", we turned right on the road down Panoche Cr. toward the San Joaquin. Got permission to camp at a ranch about 2 1/2 mi. E of Panoche and came back to the above locality where we got camp set up about 6 P.M. At camp in the evening I shot a Pipistrellus hesperis and after dark shot a Screech Owl. There were several Screech Owls around camp in the Cottonwoods and Willows but this was the only one I could locate with the flashlight. It was perched on a dead branch close to the trunk about 12 ft. off the ground in a large willow near the creek.

This evening, hunted down the creek about 1/2 mile through the willows and cottonwoods.

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Itinerary

Panorche Cr., 2 mi. SE Panorche (cont'd)

June 29
cont'd.

Shot 2 Bewick Wrens. Birds seen along the creek in decreasing order of abundance were: Mourning Doves, Cliff Swallows, Bush-tit, Barn Owl, Killdeer, Bewick Wren, Bullock Oriole, House Wren, Western Bluebird. Hunted back on S side of the creek up on the level valley floor. Saw a colony of Cliff Swallows with nests attached to the steep cut bank of the creek. The valley has been very heavily 'sheeped' and the fields are hard adobe with only small wisps of grass here and there. The only birds seen there were Cliff Swallow and Texas Nighthawk and a few Mourning Doves.

At dusk, shot a Pipistrellus in an open spot near the creek. Tried to spot Scrub Owls but didn't see any although several were heard.

June 30. Hunted from 4:30 - 7 A.M. Started out N from camp across the fields. There I saw Western Kingbird, Western Meadowlark and Lark Sparrow - The latter more common around the edges near the cottonwoods. Hoped to find Horned Larks but saw none. Johnson reports seeing them farther N. Saw a young Red-tailed Hawk, English Sparrows and Linnet in the large ^{isolated} cottonwoods in the field.

In the late afternoon, again N in the open

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Itinerary

Panoche Cr., 2 mi. S E Panoche (cont'd)

June 30
cont'd.

Country with sparse grass. This time I found the Horned Larks at first in small bunches 3-5 but later in larger groups up to ± 40 in number. Shot 8 Horned Larks. Saw the same birds seen this A.M. Some of the Kingbirds look large and dark. It appears that they might be Cassins.

About 8:30 P.M. caught a Arizona elegans ~~gopher snake~~? which crawled into camp. Hunted Scrub Owls but again had no luck.

July 1 Hunted 5-6 A.M. over the same ground as yesterday. Shot 2 Horned Larks, 2 Western Kingbirds. At camp, shot a Muttall Woodpecker from a large cottonwood.

Slightly after sundown shot a Pipistrellus in an opening in the trees near the creek.

July 2 This morning hunted 4:15-7 across the fields to the N of camp. Shot 9 Horned Larks. Also saw 4 or 5 Western Kingbirds, about an equal number of Meadowlarks. In a large cottonwood standing alone in the field again saw English Sparrow, Linnet and Shrike.

About 9 A.M., 3 Peregrine flew over camp. We followed them up and across the creek where they perched on an old barn. We tried to approach but they were too wary & flew off up the creek. On the way back to camp, scared out

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Itinerary

July 2
cont'd

Panoche Cr., 2 mi. SE Panoche (cont'd).

July 3.

a Texas Nighthawk from a clump of large willows. It was finally shot after flying around close to the ground for several minutes.

In the A.M. 5-7, hunted in the open fields on the S side of the creek. Shot 1 Say Phoebe from a fence. Saw flocks of Horned Larks of 3, 4, 6, & 10. They all seemed to be moving rapidly toward the N and only one bunch of 4 was seen on the ground. Got as far over as the hills on the S side of the valley. Went up a small canyon about $\frac{1}{4}$ mi. There were a few scattered bushes of Ephedra and Juniper there & in them I saw several Shrikes and 1 Say Phoebe. Returned across the fields and up the creek bottom. Saw a Roadrunner in the second bottom. Doves and Barn Owls were most common birds, Killdeer and Bush Tits next, Vigors Wren, Western Gnatcatcher and Western Kingbird least in the creek bottom. Up on the second bottom in willows and cottonwoods, saw many Lark Sparrows and Linnetts, and 1 Bullock Oriole. Birds flying overhead were Cliff Swallows, 1 young Redtailed Hawk and Turkey Vulture.

At 9 AM. went with Johnson down to Panoche corners to get the mail. On the way, shot a

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Itinerary

July 3. Panache Cr., 2 mi. SE Panache (cont'd).
(cont'd.) Roadrunner and 8 Horned Larks in the open fields.

Hunted Screech Owls from 8-10 P.M. Johnson got one but I didn't see any.

July 4. About 1:30 this morning woke up & heard at least 5 Screech Owls around camp. Started out to find them but the flashlight gave out before I saw even one.

From 5-7 AM hunted up the creek bottom in the cottonwoods & willows. Around the last water, a short way S W of camp were many birds, especially Brewer Blackbirds, Western Kingbirds, Killdeer, Bluebird and Lark Sparrow. Beyond this in the dry creek bed saw very few birds. There saw: Bluebird, English Sparrow, Flicker, Linnet, Shrike, Grackles and Brewer Blackbird. Shot 1 Bewick Wren and 2 Brewer Blackbirds.

In the evening, set 65 mus. spec. mousetraps ^{3-8 ft. high} in a loop through dense Citriplex vermicularis. Traps set 15-20 steps apart generally on loose, somewhat sandy soil by the bushes. Saw many Bullock Orioles, most of them apparently young and several Texas Nighthawks in the brush. On the way back to camp, saw a Wildcat in a deep gully cut back into the sharp adobe

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Itinerary

July 4th cont'd. Panoche Cr., 2 mi. S E Panoche (cont'd)
bank of the stream bottom.

July 5. The 65 mus. spec. mouse traps at 5 A.M. held 33 mammals of the following species: Dipodomys heermanni, 18 (6♂, 12♀); Onychomys torridus, 4 (all ♀); Peromyscus maniculatus, 11 (6♂, 5♀). Shot 2 Texas Nighthawks as they were resting on bare ground between Atriplex bushes.

Panoche Cr., 1000 ft., 4 mi. E Panoche, San Benito Co., Calif.

About 3 P.M., drove E on the Mendota road with Johnson. At the place where the road first crosses Panoche Cr., found tule all along the creek. Stopped there and hunted about 1/2 hr. Shot 2 Redwinged Blackbirds and saw several more. Johnson shot 1 Say Phoebe and 1 Brewer Blackbird. The latter he reported as being one of a mixed flock of Redwings and Brewers.

Continued on up the road, stopping once to try to shoot some Amospermophilus, to a divide. There we turned left (N) up the ridge for about a mile. Stopped + set 50 mus. spec. mouse traps. Traps set 15-20 steps apart over a ridge + down a gully on adobe soil with very sparse, low vegetation.

July 6. 6 mi. E Panoche [San Benito Co.], 1400 ft., Fresno Co., Calif. In 49 mus. spec. mouse traps caught

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Itinerary

July 6 Panoche Cr., 2 mi. SW Panoche (cont'd.)
cont'd. mammals of the following species: Dipodomys
heermanni, 7 (3♂, 4♀); Onychomys torridus, 1 (♂);
Peromyscus maniculatus, 1 (♂). On the way out to
the traps about 4:30 A.M., saw 2 Coyotes both
near the Panoche Creek crossing.

Johnson brought in a Calif. Jay this afternoon.
I have seen none here before.

July 7 This A.M. packed a box of birds and mammals
to send to Berkeley.

In the afternoon went with Johnson E to
where the road crosses Panoche Creek. At that
locality, Panoche Cr., 1000 ft., 4 mi. E Panoche,
San Benito Co., Calif. hunted up the creek. The
creek is rather slow flowing and there are few
trees in the creek bottom. The creek bottom is
largely covered with creeping grass (salt? grass)
with rushes and tules right along the creek.
In the tules shot 2 Yellowthroats ^(1♀, 1♂ juv.) and 1 Red-
winged Blackbird. In the large tree tobacco
shot 2 Anna Hummingbirds.

At this locality, also set 44 mus. spec. mouse
traps. 28 of these were set in damp runways
in the tules and rushes and 13 were set on
sandy second bottom by ^{salt marsh} small bushes 1-2
ft. high.

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Itinerary

Panoche Cr., 1200 ft., 2 mi. SW Panoche (cont'd)

July 8 At 5 A.M. ~~found~~ visited traps at: Panoche Cr., 1000 ft., 4 mi. E Panoche, San Benito Co., Calif.

In 28 mus. spec. mouse traps in tules & rushes caught mammals of the following species: Sorex ornatus, 1 (Badly eaten; no sex); Microtus californicus, 2 (1 ♀, 1 ?); Peromyscus maniculatus, 10 (5 ♂, 4 ♀, 1 ?); Reithrodontomys megalotis, 1 (♀); Mus musculus, 2 (1 ♂, 1 ♀). In 13 traps on sand second bottom caught 1 Dipodomys heermanni ♀. Took up the 13 traps on second bottom & added them to end of line in tules.

Visited traps in evening and found that traps had caught during the day: Microtus californicus, 2 (♂ + ♀); Mus musculus, 1 ♂.

July 9 In 41 mus. spec. mouse traps caught during the night: Microtus californicus, 1 ♀; Reithrodontomys megalotis, 1 ♂; Peromyscus maniculatus, 12 (6 ♂, 5 ♀, 1 ?); Mus musculus, 3 (♂, ♀, ?).

About noon, Drs. Ginnell and Lindsay arrived from Berkeley to spend a few days with us.

Left camp about 2 P.M. to hunt down the creek to the trapline 4 mi E Panoche. Near camp shot 2 Cassin Kingbirds and saw 1 other. All were perched in small trees on the bank of the creek. Also shot near here,

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Itinerary

July 9
cont'd.

Panoche Cr., 1200 ft., 2 mi. SW Panoche (cont'd).
1 Ash-throated Flycatcher and 1 Western Kingbird in cottonwoods. Shot 2 Say Phoebe's both on the creek bank in Saltbush near the trapline - Panoche Creek, 1000 ft., 4 mi. E Panoche, San Benito Co., Calif. Also shot a Redwinged Blackbird here as it flew over upstream.

The last mile of this hunt was performed in a rather heavy rain. Saw a Marsh Hawk flying ^{low over the tules.}

Traps this evening held: Mus musculus, 2 (♂), Microtus californicus, 1 (?); Peromyscus maniculatus, 1 (?) in 39 gov. sized mouse traps in tules and rushes. Added 20 mouse & 1 rat trap to the line. These set 15 paces apart on gravelly & sandy second bottom by low bushes & grass.

July 10

The creek rose about 8 in. last night and covered many of the traps with silt. However, caught in 39 gov. size mouse traps: Microtus californicus, 2 (♂+♀); Mus musculus, 2 (♂+♀); Peromyscus maniculatus (?). 20 gov. size mouse and 1 rat trap on gravelly second bottom caught: Peromyscus maniculatus, 8 (4♂, 4♀); Dipodomys heermanni, 1 (♂). Took in all traps. ^{On the way back to camp, saw a Prairie Falcon near the road.}

In the afternoon, drove with Johnson back to Panoche, then over the road to Mercy

Stomach contents of Screech Owl No. 1195
1 Dipodomys hermanni
1 Belastomid + eggs ? (saved).

Stomach contents of Sparrow Hawk #196
Grasshoppers 5±
Perognathus longimembra 1

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July 10
cont'd.

2 mi. SW Panoche, San Benito Co. (cont'd).
Hot Springs and the upper end of
Little Panoche Valley. At a point: 5 3/4 mi.
NW Panoche, 1500 ft., San Benito Co., Calif.
stopped and shot 2 Ammospermophilus
nelsoni. These were inhabiting a rock wall
at the side of the road. The only bushes
around were Ephedra and only sparse
grass covered the hillsides.

On the way back to camp, shot a
Burrowing Owl - one of 12[±] in a colony(?).
3 mi. NW Panoche, 1300 ft., San Benito Co., Calif.
Returned to camp. 2 mi. SW Panoche

July 11 In the night last night, heard Horned Owls.
got up and tried to shoot one but could-
n't get close enough. There were at least
4 around. Hunted from 2-4 A.M. with the
flash. Heard several Screech Owls and
shot 1 about 3:45 A.M. This bird was
perched on a limb ^{of a cottonwood} 6-8 in. in diameter,
about 6 ft out from the trunk and 9
ft. off the ground -

This morning, Dr. Ginnell brought in a
Sparrow Hawk and an Anna Hummer
and Dr. Lindale brought in a Say
Phoebe.

Stomach contents of Screech Owl No. 1203 —

3 Cicadas

1 large Grasshopper

Hyla (Det. by J. Linodale).

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July 11. Panoche Cr., 2 mi. SW Panoche, San Benito Co., (cont'd.)
cont'd. Hunted from 4:30 - 6 PM down the creek.
Shot 1 Rough-winged Swallow as it
haunted about over the creek. Shot 1 Black
Phoebe as it perched on a boulder at the
edge of the water. Shot 1 Anna Hummer as
it was feeding at the flowers of a tobacco.
Shot 1 Sparrow Hawk as it perched in the
top of a dead cottonwood.

July 12. Last night, Dr. Linsdale brought in a
Screech Owl he had shot. I hunted for
several hours but didn't get any shots
at Screech Owls altho I heard several.

This A.M. Dr. Linsdale brought in a
Barn Owl and a Cassin Kingbird and
Dr. Grinnell brought in a Horned Owl.

In the evening, hunted Screech Owls
with Linsdale. We squeaked up one but
didn't get it. Heard several others.

July 13. Dr. Grinnell brought in a Savannah
Hawk this A.M. It may have been the
bird I had thought was a young Red-
tailed Hawk. However, Dr. Grinnell says
there are young Red-tails here.

Prepared to break camp this A.M.

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Itinerary

Laguna Ranch, 4000 ft., 4 mi. S Hernandez, San Benito Co., Calif.

July 15 Broke camp on Panoche Creek about 1 P.M. July 13 and drove via Panoche, Llanada, Paicines and Tres Pinos to Hollister where we stocked up on groceries etc. Left Hollister about 5 P.M. and drove via Tres Pinos, Paicines, San Benito, Bear Valley to a point where the Laguna Ranch road joins the Hernandez road. There camped for the night. A little after sundown, heard Screech Owls in the oaks near camp. We went out with the flashlight and Johnson & I each shot a Screech Owl. Johnson's was a juv. ♂, mine an ad. ♂. Both were in the same large valley oak and were probably part of a family. We heard 2 others in the vicinity but couldn't locate them. This locality designated as: 3 1/2 mi. W Hernandez, 3000 ft., San Benito Co., Calif.

In the morning, July 14, drove in to Hernandez to see about mail. Stopped at the first ranch at the foot of the hill and talked to one of the Miller brothers who own the ranch. He told us that Laguna Ranch is being run by Mr. Herold Eade who has recently graded the road in so it is usable for cars. We were thankful to hear this since we have heard so much about the terrible road to the ranch. Drove up the road to the Laguna Ranch. Found that Mr. Eade had

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Itinerary

July 15^{cont'd.} Laguna Ranch, San Benito Co. (cont'd)
gone to King City & should return in the afternoon.
We waited to get permission to camp ^{& hunt} from Mr. Eade.
Late in the afternoon looked into a small cabin
and scared up a bat which fluttered around
the room. I finally swatted it with my hat. The
commotion scared out another bat which Johnson
swatted. These turned out to be Myotis volans,
mine a ♀ and Johnson's a ♂.

Mr. Eade hadn't showed up by dark so we went to
bed.

This A.M., July 15, found out that Mr. Eade will
be back some time today. We hope to get camp
set up sometime but don't know when or where.
We also haven't permission to hunt so can't collect
much.

Took a bird census from 10 A.M. to 1. Started
from the cabin and went northwest along the edge
of the valley. From 10:10 - 11:00 A.M. walked
thru ^{or by} thickets of scrub oak, wild cherry, wild rose,
small blue-oak and Calif. buckeye and on
grassy hillsides with white oak, Blue oak and
a few Digger pine. In the 50 minutes, recorded
124 birds of the 25 species as follows in column I.
From 11:00 - 12:10 took census in Collier Pine, 40-60 ft.
high, Large Black Oaks & a few Valley Oak & open
& grassy beneath recorded 99 birds of 18 species ^{see column II}.

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Itinerary

Laguna Ranch, San Benito Co., (cont'd.)		II 11:00-12:10	
July 15 cont'd.	I 10:10-11:00		
	Muttall Woodpecker	, 2	
	Green-backed Goldfinch	, 9	2
	Bewick Wren	, 3	
	Wood Pewee	, 12	3
	Wren Tit	, 5	
	Lizinet	, 15	6
	Plain Titmouse	, 4	9
	Allen Hummingbird	, 2	
	Calif. Woodpecker	, 5	9
	Brown Towhee	, 2	
	Western Gnatcatcher	, 8	4
	Black-headed Grosbeak	, 3	3
	Calif. Quail	, 1	
	Spotted Towhee	, 9	
	Sparrow Hawk	, 1	5
	House Wren	, 1	
	Western Bluebird	, 5	19
	Calif. Thrasher	, 1	
	Mourning Dove	, 2	1
	Chipping Sparrow	, 2	
	Maggie	, 3	
	Junco	, 1	
	Ash-throated Flycatcher	, 2	2
	Calif. Jay	, 18	10
	Bush Tit (Two flake)	, 14	3

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Itinerary

July 15
cont'd. Laguna Ranch, San Benito Co (cont'd)

Also in the Coulter Pine + Black Oak saw
5 species not recorded in the first 50 minutes:

Lark Sparrow ; 14

Martin , 4

Flicker , 1

Stellar Jay , 1.

Unknown , 3

The unknown was seen perched on the tip
of the leader of Coulter Pine. It is about the
size + shape of a Meadowlark ^{or slightly smaller}. The outer tail
feathers are white. Utters harsh call at
intervals "pāta" — or "tuck".

From 12:10 - 12:20 took census back toward
camp in willows along a dry creek bed
through grain fields. Recorded 9 individuals
of 4 species:

Calif. Jay, 4

Western Kingbird, 2

Plain Titmouse, 2

Brewer's Wren , 1.

In contrast with the above, took census
from 12:20 - 12:25 in oaks at the edge of
the grain field (Blue Oak + Valley Oak -
grass + weeds beneath). Recorded 41 birds
of 11 species:

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Itinerary

July 15
cont'd.

Laguna Ranch, San Benito Co. (cont'd)

Calif. Jay , 4
Rain Titmouse , 3
Wood Pewee , 2
Green-backed Goldfinch , 20
Brown Towhee , 1
Calif. Woodpecker , 4
Black-headed Grosbeak , 1
Linnet , 2
Sparrow Hawk , 1
Ash-throated Flycatcher , 1
Quail , 2.

The total for the 2 hrs. + 15 minutes was
273 individuals of 31 species.

During the same time, recorded 11
mammals of 3 species:

Chipmunk , 2
Jack rabbit , 3
Ground Squirrel , 6.

Mr. Eade arrived in the evening and
readily gave us permission to hunt - trap
and to use his cabin during our stay here.

July 16. Hunted this A.M. through chaparral of
Sant-oak, wild cherry, wild rose, gooseberry
with some large valley oak and Blue oak

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Itinerary

July 16
cont'd. Laguna Ranch, San Benito Co., (cont'd)
where I shot the following birds: Calif. Thrasher, 2; Brown Towhee, 1; Spotted Towhee, 1; Wren-tit, 1; Calif. Jay, 1; Juncos, 2.

July 17
In the afternoon, shot 1 Spotted Towhee and 1 Mut Hall Woodpecker at camp.
This A.M. from 5-8 hunted up the cañon running SE from camp in scrub-oak, mountain mahogany, Adenostoma, Fremontia and shot the following birds: Brown Towhee, 1; Spotted Towhee, 1; Bell Sparrow, 2; Unknown Sparrow (Lew.), 1; Bewick Wren, 2. Caught a Phrynosoma in an open sandy place in the Adenostoma.
In the evening, Johnson brought in 2 Calif. Thrashers.

Went out just at dark and hunted in the open sandy spots in scrub-oak etc to the dog camp. There I shot a Proc-will.
July 18 From 6-8 A.M. hunted in Valley Oak, Digges Pine and wild rose etc. along the creek bed where I shot 2 Juncos. From 9-11 hunted up around a hill covered with small Blue-Oak, some Valley Oak and Mountain mahogany. with dry grass under & between the trees. There I shot birds

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Itinerary

July 18 Laguna Ranch, San Benito Co., (cont'd.)
of the following species: Bell Sparrow, 1;
Chipping Sparrow, 3?; White-breasted Nuthatch,
1; Muttall Woodpecker, 1.

July 19. This A.M. hunted SE from camp mostly
around springs in a cañon where there
was lots of scrub Oak and Blue Oak
maybe and with some Amelanchier
and 1 willow in the creek bottom. There
I shot: Junco, 2; Bell Sparrow, 2;
White-breasted Nuthatch, 1; Bewick Wren, 1; Plain
Titmouse, 1; Black-throated Gray Warbler, 1.
Johnson brought in a Hairy Woodpecker
this evening.

Saw 2 Band-tailed Pigeons today in
the oaks near camp.

July 20. This A.M. rode down with Johnson in the
Dodge to the lower end of the fields +
hunted back along the ridge on the SW
side of the valley. For about an hour, hunted
in nearly pure stand of large Black Oak.
There shot 1 Brown Towhee and 3 Wood
Pewees. Also saw many Gnatcatchers, Western
Bluebirds, Lark Sparrows; several Juncos,
Chipping Sparrows; Plain Titmouses, and
Calif. Woodpeckers, Calif. Jays; one White
breasted Nuthatch.

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Itinerary

July 18 Laguna Ranch, San Benito Co., (cont'd.)
of the following species: Bell Sparrow, 1;
Chipping Sparrow, 3?; White-breasted Nuthatch,
1; Mutall Woodpecker, 1.

July 19. This A.M. hunted SE from camp mostly
around springs in a cañon where there
was lots of scrub Oak and Blue Oak
nowhere and with some Amelanchier
and 1 willow in the creek bottom. There
I shot: Junco, 2; Bell Sparrow, 2;
White-breasted Nuthatch, 1; Bewick Wren, 1; Plain
Titmouse, 1; Black-throated Gray Warbler, 1.
Johnson brought in a Fairy Woodpecker
this evening.

Saw 2 Band-tailed Pigeons today in
the oaks near camp.

July 20. This A.M. rode down with Johnson in the
Dodge to the lower end of the fields +
hunted back along the ridge on the SW
side of the valley. For about an hour, hunted
in nearly pure stand of large Black Oak.
There shot 1 Brown Towhee and 3 Wood
Pewees. Also saw many Gnatcatchers, Western
Bluebirds, Lark Sparrows; several Juncos,
Chipping Sparrows; Plain Titmouses, and
Calif. Woodpeckers, Calif. Jays; one White
breasted Nuthatch.

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Itinerary

July 20^{cont'd.} Laguna Ranch, San Benito Co. (cont'd.)
Hunted back to camp through big Coulter pines, some Black oak, Valley oak & Digges Pine. Shot 1 Wood Pewee in the ^{lower branches of a} Coulter pine. Saw several Stellar Jays and 1 Purple Martin in the Coulter Pines.

At camp shot a Brown Towhee at the edge of a scrub-oak thicket.

July 21. Hunted from 7-9 A.M. Shot 2 Black-headed Grosbeaks in an Elder bush in which they were feeding on the ripe berries. Shot a Calif. Thrasher from a scrub Oak nearby. Also saw a ♂ Western Tanager in the Elder bush. Shot a Calif. Jay in the lower branches of a small Blue Oak. Shot 1 Calif. Woodpecker from a large Valley Oak. Sat for a while by a water tank where birds were coming in to drink. Then I shot: 1 Bell Sparrow; 1 Black Phoebe; 2 Juncos; 1 Bewick Wren; 1 White-breasted Nuthatch. The latter 2 apparently weren't after water.

Shot a garter snake as it climbed around the base of a large Blue oak on a dry grassy slope. The nearest water is at least 100 yds. away.

Johnson brought in a Stellar Jay which he shot near a spring a short way up the cañon

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Itinerary

Laguna Ranch, San Benito Co., (cont'd)

July 21^{cont'd}. above the water tank.

July 22 This A.M. sat for about an hour by the spring just back of the cabin. Then I shot 4 Juncos all juvs. and 1 Black-headed Grosbeak. Also shot 1 Thrasher in the scrub oak near camp.

Johnson brought in 3 Calif Thrashers this A.M. that had been caught in rat traps. All seemed to have been caught this morning. In the evening, he brought in 2 more Thrashers that had been caught in rat traps during the day.

July 23. This A.M. sat by the water tank E of camp from 7-9 and shot the following birds: Plain Titmouse, 3; Chipping Sparrow, 2; Black Phoebe, 1; Green-backed Goldfinch, 1; Juncos, 1. Also shot 1 White-breasted Nuthatch and 1 Flicker in large Valley Oaks and 1 Linnet in a small Digger Pine.

July 24. From about 7:15-9:30 sat by the water tank where I hunted yesterday. Shot the following birds: Pipilo fuscus, 2; Lark Sparrow, 1; Belt Sparrow, 3; White-breasted Nuthatch, 1; Plain Titmouse, 1. Noted that the Brown Towhees always approach the water on the ground, ~~top~~

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Itinerary

July 24 Laguna Ranch, San Benito Co. (cont'd).
cont'd.

Hopping along. The Lark Sparrows fly in low + perch in the lower branches of trees 2-6 ft. off the ground. Bell Sparrows work in slowly from bush to bush or small tree and are generally 5-12 ft. off the ground, perhaps because here that is the densest part of the small blue oaks. Linnetts fly in to the tops of the trees and dive down to take a quick drink generally from the tank. The other birds listed above ^{seem to} prefer to drink from puddles on the ground.

July 25 Last evening about 9:30 saw and up a small owl by the water tank. It was apparently on or near the ground when first "saw and up." I flashed it as it flew about 12 ft. to an out house where it perched a moment on the galvanized iron roof. It then flew about 8 ft. into a small dead Digger Pine. As it perched, I noticed that the body was held more nearly horizontal than do Screech Owls. Shot the owl from the pine. As nearly as I can determine, it is a young Saw-whet Owl.

This morning, hunted from 5:30-8 A.M. around the ranch house. There are several

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Itinerary

July 25 ^{cont'd.} Laguna Ranch, San Benito Co. (cont'd.)
Large Elder trees around the house. In them, I shot a Linnet and 1 Lewis' Woodpecker, both feeding on the ripe berries. Picked up a dead Black-headed Grosbeak under an Elder. The bird was apparently shot by someone at the ranch. Saw many other Grosbeaks in the Elders and in the grain fields nearby. California Jays and Greenbacked Goldfinches were also feeding on the berries. In large Valley Oaks shot 1 Lewis' Woodpecker, 1 Calif. Woodpecker, 1 Plain Titmouse and 1 White-breasted Nuthatch. Shot a Brown Towhee at camp.

I talked a few minutes with Mr. Cade this evening. He says Eagles nest on Hesperian peak. He described a bird which must be a Laguna Bunting which he has seen here (so far I have seen none). He has told me in previous conversation (July 19) of a Clarke Nuthatch which was here and stayed several months. This is the 4th report we have had of them in this region.

July 26. Hunted this AM. for about an hour in mixed scrub-oak, Mountain Mahogany, Fremontia and

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Hairy

July 26 Laguna Ranch, San Benito Co., (cont'd)
cont'd. Adenostoma. There shot 2 Bell Sparrows.

Saw several more of the same species. Also saw Bewick Wrens and Western Gnatcatchers. Heard Wren-tit, Calif. Thrasher and Spotted Towhee but birds seem to be scarce. Went back to my old stand at the water tank where I shot a White breasted Nuthatch in a large Valley Oak. There were few birds there so went on up the canyon back of the tank to the spring. The spring is in the gully bottom and has a few bushes of gooseberry, Willow and Amelanchier around it with scrub-oak, live oak and Blue oak nearby. The hill-sides above are covered by dense chaparral and trees. There I shot 1 Bell Sparrow, 1 Plain Titmouse, 1 Wood Pewee and 1 Juncos. Also saw Bewick Wren, Western Gnatcatcher, Calif. Jay, Chipping Sparrow?, and Black Phoebe. Shot a Dove from a small Blue Oak.

In the evening, saw a Powwill and heard Horned Owl and Screech Owls.

July 27. This A.M. hunted from 5:30 - 8 through dense chaparral, mainly Adenostoma and Scrub oak. Followed along the ridge between our camp and Lewis Creek drainage, working

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Itinerary

July 27 Laguna Ranch, San Benito Co. (cont'd.)
cont'd. a firebreak. Birds were very scarce. Perhaps
this is due to distance from water. Shot 1
Bell Sparrow in Adenostoma. Have been
looking + listening for Black-chinned
Sparrows but have neither seen nor heard
them here.

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Itinerary

6 mi. ESE San Benito, 1600 ft., San Benito Co., Calif.

July 29. Broke camp yesterday about 11 AM. at Laguna Ranch. Drove down to the main San Benito-Hernandez road, turned off on the road to Bitterwater Valley and on to King City. Got groceries and shipped specimens at King City. Then returned to Bitterwater Valley and westward on the road to San Benito where we stopped for mail. Continued up the road along San Benito River to the above locality. This is at the Columbus School (U.S.G.S. topo. sheet Priest Valley Quad.). Got permission to camp from Mr. Sam Maggini on whose ranch we are now located.

Last night heard Screech Owls in the Cottonwoods along the river bottom.

This A.M., hunted from 7-8:30 along the river bottom. There are a few scattered large cottonwoods and some willows along the banks. The river is very low and dry in places. Shot 2 Say Phoebes, 1 Black Phoebe, 1 Plain Titmouse, 1 Lark Sparrow, 1 Calif. Jay. Also saw Linnet, Flicker, Mourning Dove, Brown Towhee, Magpie, Brewer Blackbird, Western Gnatcatcher, White-breasted Nuthatch, Killdeer and Black-headed Grosbeak.



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Itinerary

6 mi. ESE San Benito, S.B. Co. (Cont'd)

July 29
cont'd. At camp, shot 2 Plain Titmouses and 1 White-breasted Nuthatch in the big cotton-woods.

July 30. Hunted down the river about 1/2 mi. this A.M. Shot: 2 Muttall Woodpeckers in Cottonwood trees; 2 Black Phoebes, 1 in willows and 1 on a fence by an old barn; 1 Lark Sparrow, one of many seen perched in dead Cottonwood; 1 Rock Wren by cut bank 6-8 ft. high; 1 Cassin Kingbird, first seen flying upstream but shot after it perched in ^{on stream bank} Valley Oak about 25 ft. off the ground.

Two birds seen today include: Cooper Hawk, 2 seen beating over the low bushes in the river bottom; Kingfisher, 2 seen darting into the water, perched, or flying along stream too wary to approach for a shot.

July 31. Hunted this A.M. from 10-12 A.M. down the river. Shot: 2 Say Phoebes, 1 perched on fence over water, the other perched in low bushes in the dry creek bottom; 1 Black Phoebe in brush pile by edge of river; 1 Plain Titmouse and 1 Lark Sparrow in cottonwoods; 1 Killdeer on a gravel bar by the stream.
In the evening, went up to San Maggini for mail. On the way, saw & heard a

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Itinerary

July 31 6 mi. ESE San Benito (Cont'd.)

cont'd. flock of 15-20 Yellow-billed Magpies in a large Digger Pine. Apparently they were going to roost there. Shot 2 of the magpies.

Saw many bats this evening around the pool above Sam Maggini's dam in the river. Also heard several Screech Owls in the Oaks and Cottonwoods.

Aug. 1 This A.M., hunted from 5-7 mostly around the large Valley Oaks in the Corn field to the W of camp. In the oaks, shot 1 Calif. Woodpecker, 1 White-breasted Nuthatch, 1 Plain Titmouse. Also saw many Yellow-billed Magpies, Calif. Jays, Linnetts and Lark Sparrows in the oaks. Shot 1 Anna Hummingbird in the lower branches of a cottonwood. Also shot 1 Wood Pewee? in about the same situation as the hummer. Shot 1 Calif. Jay and 2 Linnetts from the topmost branch of a large cottonwood. New birds seen this morning were: Great Blue Heron 1 flying down the river. Birds seen ^{before} but not recorded were: Bush-Tit; flock in Blue Oak; Bluebird, common in all situations; Buzzard, several fly over every day; Red-tailed Hawk 2 seen circling down canyon from camp.

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Itinerary

- Aug. 1 6 mi. ESE San Benito (cont'd.)
cont'd. This afternoon, Johnson brought in a Green Heron. This is the first I've seen from here altho we saw one between here & San Benito as we were coming in on the 28th of July.
- Aug. 2. This AM. drove down with Johnson to San Benito. There hunted in the river bottom from 5:30 - 7 AM. The area hunted is dry sand with scattered low bushes of Eriogonum fasciculatum (^{sp.}?), Baccharis pilularis, Ceanothus cuneatus and others with a few cottonwoods and willows. Birds were scarce and very "shy". Shot 1 Mockingbird in a Ceanothus. This bird had a Blue "mud-dauber" wasp in her bill when shot. I suspect that she may have been feeding young. Saw at least 3 other Mockingbirds here. Heard no singing - only the Thrasher-like alarm ([?]) note. Shot 1 Lutescent Warbler, one of two seen in a small cottonwood. Also saw here: Brown Towhee, 2; Western Gnatcatcher, 2; Wood Pewee ([?]), 2; Anna hummingbird, 1; Sparrow Hawk, 1; Meadowlark, 3; Western Bluebird, 4 or 5. Heard 2 Shrikes. Saw Lewis Woodpecker 5±

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Itinerary

Aug. 2 6 mi. ESE San Benito (cont'd.)
cont'd. around the old stone buildings and hotel at San Benito.

After returning to camp, hunted around the edge of the corn field where I shot 1 Lutescent Warbler in Russian Thistle in the corn patch. Then hunted up the hillside E of us. Spent about an hour around a patch of Adenostoma ^{looking for Wren-tits} and Manzanita, but didn't shoot any birds. Saw only 1 Sharp-shinned Hawk; 4 Linnets and 2 Western Bluebirds. However, I did hear one or two Wren-tits. Hunted back thru blue-oaks where I shot 2 Plain Titmouses and 1 Bewick Wren. Near camp, shot 2 Brewer Blackbirds as they were foraging about on the damp, sandy river bottom. Johnson brought in a Calif. Jay and 2 Brown Towhees today.

Aug 3 Hunted up the river about 1/4 mi this morning. The water has run over Sam Maggini's dam during the weekend and is running down a couple of hundred yards below the dam. Birds were abundant all along that stretch. Sat under a small ^{clump of} Yucca pines on the river bank and shot from there: 1 Linnet;

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Itinerary

Aug. 3 6 mi. ESE San Benito (cont'd).
cont'd. 1 Brown Towhee and 1 Calif. Jay. Shot a Yellow-billed Magpie as it flew over. Shot a Flicker from a fence post where it was feeding on small ants. Shot a Calif. Woodpecker from a Valley Oak. Shot 1 Black Phoebe as it perched on a boulder by the stream and 2 Brewer Blackbirds as they foraged about on the sandy, damp stream bank.

Aug. 4 Yesterday evening about 8 P.M. heard Screch Owls in the cottonwood overhead. Flashed two with the light and shot one of them.

This A.M. hunted up river from camp to Sam Maggini's dam. Sat for a while in the same clump of small Digger Pines as yesterday. Then I shot 1 Prairie Titmouse, 2 Calif. Thrashers and 1 Calif. Jay. Shot 1 Shrike as it perched about 6 ft. above the ground in the lower branches of a cottonwood. On a fence near the dam shot 1 Black Phoebe and 1 Say Phoebe. Shot a Black-headed Grosbeak from the topmost branches of a dead cottonwood. Johnson brought in another shrike.

About 10 A.M. shot 2 Yellow-billed Magpies.

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Itinerary

Aug. 4. 6 mi. ESE San Benito (cont'd.)

cont'd. out of a flock of 9± that perched in the cottonwood under which we are camped.

This A.M. again saw a Great Blue Heron flying over and saw the Kingfisher fly over camp upstream -

Aug. 5. This A.M. from 5:30 - 8 hunted thru the corn patch W of camp around the large Valley oaks. Shot 2 White-breasted Nuthatches there. Took a shot at a Yellow-billed Magpie as it perched in the top of one of the oaks. Then hunted down by the old Columbus School house where I shot a plain Titmouse as it hopped about on the ground near the river. Shot a Shrike as it perched on a fence post in the dry, sandy part of the river bottom. Shot 2 Linnetts and 1 Lark Sparrow from dead branches in the top of a cottonwood.

Johnson brought in a Hairy Woodpecker and a Meadowlark. The ^{Hairy} woodpecker is the first I've seen here.

Saw the Blue Herons fly over again this evening.

Aug. 6. This A.M. hunted from 6 - 7 through the Blue Oaks. 2 of us up to the

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Itinerary

Aug. 6 6 mi. ESE San Benito (cont'd.)
cont'd. Adenostoma. Shot 1 Nuttall Woodpecker
and 1 White-breasted Nuthatch in the Blue
oak. Also saw 1 Bewick Wren, 1 Plain
Titmouse, 5 Calif. Jays, 12± Western
Bluebirds, 1 Sparrow Hawk, 1 Sharp
shinned Hawk. Spent about 45 min.
hunting in the Adenostoma. Saw no
birds in that time but heard 1 Wren-
tit. Returned to camp & then hunted
through a freshly irrigated alfalfa
patch. There saw 15± Meadowlarks,
and about 12 Brewer Blackbirds and
2 Yellow billed Magpies foraging in
the field. Shot 1 Meadowlark. Went
out by the river above Saw Maggins'
dam. There I shot 1 Rough Winged
Swallow and 1 Brewer Blackbird.
Went back down river to camp & shot
1 Green-backed Goldfinch as it perched
on a fence. I believe this bird was
being fed by a parent bird just before
I shot it. Shot 1 Calif. Quail from a
flock, mostly 1/2 grown that had come
down to water. I have noticed that
most of the flocks of Quail are mixed
- old birds, half grown and some small.

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Itinerary

- Aug. 6 Cont'd. ESE San Benito (Cont'd.)
cont'd. birds only 3-4 inches long
- Aug. 7 This A.M. about 5:30 saw 2 Blue Herons fly over and land by the river. We sneaked up but found only 1 which Johnson shot. Shot a Calif. Jay and a White-breasted Nuthatch in the cottonwood over our tent.
- Aug. 8. From 5:30-7:30 A.M., hunted through the corn field and large Valley Oaks and up along the river. Shot 1 Bush-tit from a flock of 15± that were foraging in a large Valley Oak. In the oaks, also saw Calif. Woodpecker, Yellow-billed Magpie, Linnet, Brown Towhee, Black-headed Grosbeak, Calif. Jay and White-breasted Nuthatch. Shot at a Great Blue Heron as it flew over going down the river. Shot 1 White-breasted Nuthatch and 1 Calif. Jay in cottonwoods along the river. There also saw Mourning Dove, Lark Sparrow, Linnet, Plains Titmouse and Brown Towhee. Shot 1 Say Phoebe as it perched on a low bush in the dry river bottom. Along there, saw also Calif. Quail, Bewick Wren, Plains Titmouse, Brown Towhee, Brewer Blackbird, Black Phoebe, Dove. Saw Meadowlark, Sparrow Hawk and Flicker fly over.



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Itinerary

Aug. 8 6 mi. ESE San Benito, S.B. Co. (cont'd.)
cont'd. Shot 1 Calif. Woodpecker in a small Valley Oak.

At camp shot a Bewick Wren as it hopped around ^{on} the trunk of a large cottonwood near the ground.

Aug. 9. Hunted from 5-6:30 up the river. Shot a Brown Towhee in a small willow. This bird was one of 6 or 8 towhees that were drinking at a small puddle. Shot a Shrike in a small valley oak at the edge of the alfalfa patch just above camp. It was perched about 8 ft. above the ground. Shot a Western Bluebird, one of 4 or 5 perched in a valley oak at the edge of the alfalfa. Shot a Yellow-billed Magpie as it flew over the alfalfa patch. This bird had been foraging with about 20 others on the grassy hillside above the alfalfa. Also saw Black Phoebe by the river; Calif. Quail - large flock watering at the river - came down through the brush when it approached the water most closely; Sparrow Hawk² in cottonwoods; Calif. Jay - several in cottonwoods and Digges Pine; Plain Titmouse in small Digges Pine; Calif. Woodpecker in Valley Oak & Cottonwood; Flicker in dead cottonwood; Linnet - common in flocks all along; Lark Sparrow - in flocks usually



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Itinerary

Aug. 9
cont'd. 6 mi. ESE San Benito (cont'd.)
on ground in grass or weeds or perched in
cottonwoods or valley oaks; Green-backed
Goldfinches - in small flocks around edges
of fields, perched in trees & at water; Brewer
Blackbird - In flocks perched in dead oaks
flying over downstream (as they seem to do
every morning); Meadowlark - flocks of
15 or 20 in alfalfa; Killdeer - ² Groups (families?)
of 4 or 5 along the river; Buzzard 10 or 12
circling overhead (There is a dead cow nearby);
Bewick Wren, 2 in thickets of wild rose; Nuttall
Woodpecker, 1 in small Diggee Pine.

Hunted down river from 8-9 AM. Shot
1 Kingfisher as it flew down the creek. Had
been perched on a dead limb of an oak.
Shot 1 Nuttall Woodpecker in willow by the
river. Shot 1 ^{Calif. Jay} ~~Brown Towhee~~ in a small
cottonwood. Birds ^{seen here but} not seen up the creek this
morning were; Say Phoebe in small bushes
in the dry river bottom; Lutescent Warbler, 2
in small willows; Dove several perched in
tops of large cottonwoods; Slender-billed
Nuthatch - heard 1 in cottonwoods.

Caught a Thamnopis scitalis which
crawled into the tent at camp.

